

GenCore version 5.1.1.7
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OM protein - protein search, using sw model

Run on: March 16, 2006, 17:25:05 ; Search time 27 Seconds
(without alignments)
1552.466 Million cell updates/sec

Title: US-10-036-342-57
Perfect score: 2623
Sequence: 1 MDPKLGWRMAASLLAVLLLLL.....NYIEGTKLFAAFLEMAQLH 507

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1500 summaries

Database : Issued Patents AA: *
1: /cgn2_6/ptodata/1/iaa/5 COMB.pep.*
2: /cgn2_6/ptodata/1/iaa/6 COMB.pep.*
3: /cgn2_6/ptodata/1/iaa/H COMB.pep.*
4: /cgn2_6/ptodata/1/iaa/pCTUS COMB.pep.*
5: /cgn2_6/ptodata/1/iaa/RE COMB.pep.*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1174.5	44.8	429	2	US-09-270-767-45937
2	990	37.7	492	2	US-09-248-796A-14755
3	607.5	23.2	148	2	US-09-621-976-3957
4	574.5	21.9	878	2	US-09-538-092-61
5	451.5	17.2	495	2	US-09-438-185A-981
6	432.5	16.5	457	2	US-09-583-110-4829
7	428	16.3	393	2	US-09-198-452A-1054
8	403	15.4	466	2	US-09-502-540-15643
9	395.5	15.1	345	2	US-09-248-796A-14559
10	367	14.0	304	2	US-09-107-433-3644
11	261	10.0	103	2	US-09-621-976-4417
12	248	9.5	98	2	US-09-513-999C-5701
13	248	9.5	98	2	US-09-513-999C-5702
14	242.5	9.2	267	2	US-09-602-777A-192
15	233	8.9	231	2	US-09-602-777A-194
16	230.5	8.8	476	2	US-09-902-540-14806
17	225.5	8.6	406	2	US-09-328-352-5309
18	215	8.2	370	2	US-09-331-568A-30
19	211	8.0	431	2	US-09-134-001C-4338
20	210	8.0	376	2	US-09-489-039A-9125
21	195.5	7.5	632	2	US-09-252-991A-17148
22	188.5	7.2	386	2	US-09-543-681A-6238
23	187	7.1	440	2	US-09-107-532A-4071
24	176	6.7	318	2	US-09-581-005-2
25	175	6.7	402	2	US-09-134-000C-5335
26	174	6.6	439	2	US-09-634-238-412
27	172	6.6	331	2	US-09-724-623-78
28	172	6.6	355	2	US-09-331-568A-28
29	172	6.6	425	2	US-09-134-000C-3861
30	172	6.6	465	2	US-09-634-238-411
31	171	6.4	418	2	US-09-134-001C-3552
32	169	6.4	408	2	US-09-902-540-10715
33	162.5	6.2	450	2	US-09-107-532A-6534
34	158	6.0	402	2	US-09-540-236-2885
35	157.5	6.0	466	2	US-09-583-110-5296
36	157.5	6.0	470	2	US-09-107-433-3616
37	150	5.7	388	2	US-09-331-568A-4
38	150	5.7	388	2	US-09-543-681A-8308
39	149	5.7	396	2	US-09-331-568A-29
40	144	5.5	380	2	US-09-902-540-10970
41	141	5.4	408	1	US-08-127-278-4
42	141	5.4	408	1	US-08-555-860-4
43	141	5.4	408	2	US-09-814-951A-4
44	141	5.4	408	2	US-10-109-860B-4
45	141	5.4	421	2	US-09-949-016-10991
46	139.5	5.3	443	2	US-09-583-110-4278
47	139.5	5.3	446	2	US-09-107-433-4675
48	137.5	5.2	393	2	US-09-252-991A-22875
49	137	5.2	370	2	US-09-270-767-33923
50	137	5.2	370	2	US-09-270-767-49140
51	136.5	5.2	446	2	US-09-134-001C-5125
52	133.5	5.1	434	2	US-09-252-991A-21048
53	132	5.0	383	2	US-09-575-602-4
54	132	5.0	383	2	US-09-032-086-4
55	128.5	4.9	258	2	US-09-134-000C-4891
56	126	4.8	418	2	US-09-710-279-380
57	125.5	4.8	430	2	US-09-134-001C-4302
58	125	4.8	373	2	US-09-814-951A-2
59	125	4.8	373	2	US-10-109-860B-2
60	123.5	4.7	441	2	US-09-489-039A-12164
61	118.5	4.5	1433	2	US-09-716-964B-184
62	116	4.4	334	2	US-09-107-532A-6586
63	114	4.3	265	2	US-09-134-000C-6459
64	114	4.3	803	2	US-09-543-681A-4623
65	113.5	4.3	409	2	US-09-564-559B-5
66	113.5	4.3	409	2	US-09-564-559B-6
67	113	4.3	410	1	US-08-792-283A-7
68	113	4.3	410	1	US-09-105-908-7
69	113	4.3	410	2	US-09-271-713-7
70	113	4.3	410	2	US-09-023-809B-1
71	113	4.3	410	2	US-09-723-546-1
72	112	4.3	409	2	US-09-564-559B-8
73	112	4.3	409	2	US-09-564-559B-9
74	112	4.3	409	2	US-09-564-559B-10
75	112	4.3	409	2	US-09-564-559B-11
76	112	4.3	410	2	US-09-023-809B-2
77	112	4.3	410	2	US-09-723-546-2
78	111	4.2	422	2	US-09-602-777A-202
79	110.5	4.2	164	2	US-09-270-767-31641
80	110.5	4.2	164	2	US-09-270-767-46858
81	110	4.2	615	2	US-09-949-016-11320
82	110	4.2	1953	2	US-09-917-254-92
83	109	4.2	290	2	US-09-252-991A-19355
84	108	4.1	246	2	US-09-602-777A-206
85	107.5	4.1	379	2	US-09-107-532A-5519
86	105	4.0	141	2	US-09-270-767-33804
87	104.5	4.0	383	2	US-09-543-681A-7526
88	103	3.9	385	2	US-09-134-000C-4952
89	103	3.9	809	2	US-09-543-681A-6686
90	102.5	3.9	338	2	US-09-270-767-44278
91	102.5	3.9	1118	2	US-09-585-173B-36
92	101	3.9	353	2	US-09-328-352-5230
93	100.5	3.8	826	2	US-09-756-247-41
94	100.5	3.8	1473	2	US-10-037-417-112
95	100	3.8	471	2	US-09-543-681A-5705
96	99	3.8	1031	2	US-09-585-173B-40
97	99	3.8	1704	2	US-09-392-812A-2
98	98	3.7	362	2	US-09-902-540-9705
99	98	3.7	895	2	US-09-489-039A-12499
100	97.5	3.7	462	2	US-09-252-991A-28292

247	87.5	3.3	1486	2	US-09-949-016-8681	Sequence 8681, Ap	Sequence 8681, Ap	320	84	3.2	504	1	US-08-187-453-30	Sequence 30, Appl
248	87.5	3.3	1486	2	US-09-949-016-8682	Sequence 8682, Ap	Sequence 8682, Ap	321	84	3.2	668	2	US-09-248-796A-17495	Sequence 17495, A
249	87.5	3.3	1499	2	US-09-949-016-8683	Sequence 8683, Ap	Sequence 8683, Ap	322	84	3.2	724	2	US-09-543-681A-4745	Sequence 4745, Ap
250	87.5	3.3	1499	2	US-09-949-016-8684	Sequence 8684, Ap	Sequence 8684, Ap	323	84	3.2	735	2	US-09-147-236-7	Sequence 7, Appli
251	87.5	3.3	1499	2	US-09-949-016-8685	Sequence 8685, Ap	Sequence 8685, Ap	324	84	3.2	735	2	US-09-522-474-7	Sequence 7, Appli
252	87.5	3.3	1499	2	US-09-949-016-8686	Sequence 8686, Ap	Sequence 8686, Ap	325	84	3.2	754	2	US-09-543-681A-5416	Sequence 5416, Ap
253	87.5	3.3	1499	2	US-09-949-016-8687	Sequence 8687, Ap	Sequence 8687, Ap	326	84	3.2	823	2	US-09-107-532A-6343	Sequence 6343, Ap
254	87.5	3.3	1499	2	US-09-949-016-8688	Sequence 8688, Ap	Sequence 8688, Ap	327	84	3.2	953	1	US-08-500-857A-2	Sequence 2, Appli
255	87.5	3.3	1499	2	US-09-949-016-8689	Sequence 8689, Ap	Sequence 8689, Ap	328	84	3.2	1125	2	US-09-900-920-60	Sequence 60, Appl
256	87.5	3.3	1499	2	US-09-949-016-8690	Sequence 8690, Ap	Sequence 8690, Ap	329	84	3.2	1125	2	US-09-252-991A-20266	Sequence 20266, A
257	87.5	3.3	1499	2	US-09-949-016-8691	Sequence 8691, Ap	Sequence 8691, Ap	330	84	3.2	1734	2	US-09-724-126A-19	Sequence 19, Appl
258	87.5	3.3	1858	2	US-09-489-039A-11380	Sequence 11380, A	Sequence 11380, A	331	84	3.2	1749	2	US-09-724-126A-2	Sequence 2, Appli
259	87.5	3.3	7831	2	US-09-002-540-12902	Sequence 12902, A	Sequence 12902, A	332	84	3.2	1881	2	US-09-233-086-3	Sequence 3, Appli
260	87	3.3	1339	2	US-09-328-352-7337	Sequence 7337, Ap	Sequence 7337, Ap	333	83.5	3.2	344	2	US-09-328-352-7987	Sequence 7987, Ap
261	87	3.3	559	2	US-09-002-540-14492	Sequence 14492, A	Sequence 14492, A	334	83.5	3.2	367	2	US-09-991-181-8	Sequence 8, Appli
262	87	3.3	602	2	US-09-569-037-6	Sequence 6, Appli	Sequence 6, Appli	335	83.5	3.2	367	2	US-09-990-444-8	Sequence 8, Appli
263	87	3.3	631	2	US-09-569-037-5	Sequence 5, Appli	Sequence 5, Appli	336	83.5	3.2	367	2	US-09-997-333-8	Sequence 8, Appli
264	87	3.3	663	2	US-09-543-681A-4450	Sequence 4450, Ap	Sequence 4450, Ap	337	83.5	3.2	367	2	US-09-992-598-8	Sequence 8, Appli
265	87	3.3	1456	2	US-09-134-000C-6427	Sequence 6427, Ap	Sequence 6427, Ap	338	83.5	3.2	464	2	US-09-489-039A-8157	Sequence 8157, Ap
266	86.5	3.3	471	2	US-09-107-532A-4629	Sequence 4629, Ap	Sequence 4629, Ap	339	83.5	3.2	496	2	US-08-622-191-1	Sequence 1, Appli
267	86.5	3.3	529	1	US-08-548-509-2	Sequence 2, Appli	Sequence 2, Appli	340	83.5	3.2	510	2	US-09-710-279-2860	Sequence 2860, Ap
268	86.5	3.3	605	2	US-09-902-540-14269	Sequence 14269, A	Sequence 14269, A	341	83.5	3.2	545	2	US-08-974-180-15	Sequence 15, Appl
269	86.5	3.3	734	2	US-09-438-185A-1325	Sequence 125, App	Sequence 125, App	342	83.5	3.2	583	2	US-09-710-279-1358	Sequence 1358, Ap
270	86.5	3.3	826	2	US-09-328-352-7515	Sequence 7515, Ap	Sequence 7515, Ap	343	83.5	3.2	778	2	US-09-328-352-7907	Sequence 7907, Ap
271	86.5	3.3	1627	2	US-09-252-991A-28863	Sequence 28863, A	Sequence 28863, A	344	83.5	3.2	927	2	US-09-134-001C-4831	Sequence 4831, Ap
272	86.5	3.3	2141	2	US-09-949-016-10918	Sequence 10918, A	Sequence 10918, A	345	83.5	3.2	1010	2	US-09-134-001C-5178	Sequence 5178, Ap
273	86	3.3	222	2	US-09-134-000C-4293	Sequence 4293, Ap	Sequence 4293, Ap	346	83.5	3.2	2022	2	US-09-976-594-15	Sequence 15, Appl
274	86	3.3	459	2	US-09-950-772-4	Sequence 4, Appli	Sequence 4, Appli	347	83.5	3.2	2322	2	US-09-919-039-15	Sequence 15, Appl
275	86	3.3	574	2	US-09-385-028-4	Sequence 4, Appli	Sequence 4, Appli	348	83.5	3.2	3169	2	US-09-453-702B-257	Sequence 257, App
276	86	3.3	574	2	US-09-726-614-4	Sequence 4, Appli	Sequence 4, Appli	349	83.5	3.2	3169	2	US-10-114-170-257	Sequence 257, App
277	86	3.3	574	2	US-09-385-040-4	Sequence 4, Appli	Sequence 4, Appli	350	83.5	3.2	3666	1	US-08-222-617A-12	Sequence 12, Appl
278	86	3.3	618	2	US-09-934-901-18	Sequence 18, Appl	Sequence 18, Appl	351	83.5	3.2	3727	1	US-08-222-617A-27	Sequence 27, Appl
279	86	3.3	618	2	US-09-334-868-8	Sequence 8, Appl	Sequence 8, Appl	352	83.5	3.2	3778	1	US-08-222-617A-2	Sequence 2, Appli
280	86	3.3	618	2	US-10-321-210-18	Sequence 18, Appl	Sequence 18, Appl	353	83	3.2	407	2	US-09-902-540-15171	Sequence 15171, A
281	86	3.3	618	2	US-10-320-874-18	Sequence 18, Appl	Sequence 18, Appl	354	83	3.2	444	2	US-09-991-181-410	Sequence 410, App
282	86	3.3	618	2	US-10-320-924-18	Sequence 18, Appl	Sequence 18, Appl	355	83	3.2	444	2	US-09-990-444-410	Sequence 410, App
283	86	3.3	618	2	US-10-701-200-8	Sequence 8, Appl	Sequence 8, Appl	356	83	3.2	444	2	US-09-997-333-410	Sequence 410, App
284	86	3.3	788	2	US-09-270-767-44611	Sequence 44611, A	Sequence 44611, A	357	83	3.2	444	2	US-09-992-598-410	Sequence 410, App
285	86	3.3	795	2	US-09-370-807-6	Sequence 6, Appli	Sequence 6, Appli	358	83	3.2	501	2	US-09-489-039A-12663	Sequence 12663, A
286	86	3.3	795	2	US-09-921-259-6	Sequence 6, Appli	Sequence 6, Appli	359	83	3.2	503	1	US-07-612-673-2	Sequence 2, Appli
287	86	3.3	1287	2	US-09-949-016-7826	Sequence 7826, Ap	Sequence 7826, Ap	360	83	3.2	576	2	US-09-578-921A-2	Sequence 2, Appli
288	85.5	3.3	268	2	US-09-949-016-7216	Sequence 7216, Ap	Sequence 7216, Ap	361	83	3.2	967	2	US-09-543-681A-6407	Sequence 6407, Ap
289	85.5	3.3	388	2	US-09-489-039A-9214	Sequence 9214, Ap	Sequence 9214, Ap	362	83	3.2	988	2	US-09-382-552-233	Sequence 233, App
290	85.5	3.3	498	2	US-09-248-796A-25517	Sequence 25517, A	Sequence 25517, A	363	83	3.2	2080	2	US-09-382-552-2	Sequence 2, Appli
291	85.5	3.3	849	2	US-09-543-681A-5761	Sequence 5761, Ap	Sequence 5761, Ap	364	83	3.2	2285	1	US-09-252-991A-17790	Sequence 17790, A
292	85.5	3.3	1026	2	US-09-248-796A-16128	Sequence 16128, A	Sequence 16128, A	365	83	3.2	2366	1	US-08-480-604A-10	Sequence 10, Appl
293	85.5	3.3	1161	2	US-09-817-762-8	Sequence 8, Appli	Sequence 8, Appli	366	83	3.2	2366	1	US-08-405-496A-10	Sequence 10, Appl
294	85.5	3.3	1179	2	US-09-252-991A-17895	Sequence 17895, A	Sequence 17895, A	367	83	3.2	2366	2	US-08-915-136-10	Sequence 10, Appl
295	85	3.2	195	2	US-09-270-767-32953	Sequence 32953, A	Sequence 32953, A	368	83	3.2	2366	2	US-08-957-310-10	Sequence 10, Appl
296	85	3.2	195	2	US-09-270-767-48170	Sequence 48170, A	Sequence 48170, A	369	83	3.2	2366	2	US-09-084-517-10	Sequence 10, Appl
297	85	3.2	385	2	US-10-372-490-80	Sequence 80, Appl	Sequence 80, Appl	370	83	3.2	2366	2	US-09-084-517-10	Sequence 10, Appl
298	85	3.2	389	2	US-09-949-016-9488	Sequence 9488, Ap	Sequence 9488, Ap	371	82.5	3.1	347	2	US-09-540-236-2130	Sequence 2130, Ap
299	85	3.2	420	2	US-09-902-540-12220	Sequence 12220, A	Sequence 12220, A	372	82.5	3.1	425	2	US-10-169-048-58	Sequence 58, Appl
300	85	3.2	426	2	US-09-489-039A-7944	Sequence 7944, Ap	Sequence 7944, Ap	373	82.5	3.1	521	1	US-07-796-361A-11	Sequence 11, Appl
301	85	3.2	498	2	US-09-489-039A-13707	Sequence 13707, A	Sequence 13707, A	374	82.5	3.1	521	1	US-08-539-666-2	Sequence 2, Appli
302	85	3.2	547	2	US-09-555-000-2	Sequence 2, Appli	Sequence 2, Appli	375	82.5	3.1	532	1	US-09-792-024-70	Sequence 70, Appl
303	85	3.2	672	2	US-09-040-843-4	Sequence 4, Appli	Sequence 4, Appli	376	82.5	3.1	772	2	US-09-252-991A-31855	Sequence 31855, A
304	85	3.2	672	2	US-09-621-855-4	Sequence 4, Appli	Sequence 4, Appli	377	82.5	3.1	815	2	US-09-914-259-18	Sequence 18, Appl
305	85	3.2	713	1	US-08-849-212-4	Sequence 4, Appli	Sequence 4, Appli	378	82.5	3.1	1132	2	US-09-248-796A-15026	Sequence 15026, A
306	85	3.2	866	2	US-09-040-843-3	Sequence 3, Appli	Sequence 3, Appli	379	82.5	3.1	1493	2	US-09-713-273A-20	Sequence 20, Appl
307	85	3.2	866	2	US-09-621-855-2	Sequence 2, Appli	Sequence 2, Appli	380	82.5	3.1	2165	1	US-08-514-975B-2	Sequence 2, Appli
308	85	3.2	1464	2	US-10-038-224-2	Sequence 2, Appli	Sequence 2, Appli	381	82.5	3.1	2165	2	US-09-368-076-29	Sequence 29, Appl
309	85	3.2	1755	2	US-09-724-126A-4	Sequence 4, Appli	Sequence 4, Appli	382	82.5	3.1	2165	2	US-09-368-076-30	Sequence 30, Appl
310	84.5	3.2	208	2	US-09-902-540-15342	Sequence 15342, A	Sequence 15342, A	383	82.5	3.1	2165	4	PCT-US95-12507-2	Sequence 2, Appli
311	84.5	3.2	232	2	US-09-583-110-4063	Sequence 4063, Ap	Sequence 4063, Ap	384	82	3.1	334	2	US-09-538-092-894	Sequence 894, App
312	84.5	3.2	526	2	US-09-248-796A-14807	Sequence 14807, A	Sequence 14807, A	385	82	3.1	417	2	US-09-107-532A-6148	Sequence 6148, Ap
313	84.5	3.2	573	2	US-09-543-681A-6584	Sequence 6584, Ap	Sequence 6584, Ap	386	82	3.1	468	2	US-09-489-039A-13461	Sequence 13461, A
314	84.5	3.2	643	2	US-10-175-002-2	Sequence 2, Appli	Sequence 2, Appli	387	82	3.1	495	2	US-09-252-991A-28182	Sequence 28182, A
315	84.5	3.2	1259	2	US-09-489-039A-8840	Sequence 8840, Ap	Sequence 8840, Ap	388	82	3.1	531	2	US-09-145-916-7	Sequence 7, Appli
316	84.5	3.2	4861	2	US-09-919-497-70	Sequence 70, Appl	Sequence 70, Appl	389	82	3.1	543	2	US-08-426-509A-14	Sequence 14, Appl
317	84	3.2	397	1	US-08-415-823-2	Sequence 2, Appli	Sequence 2, Appli	390	82	3.1	543	2	US-08-232-545-14	Sequence 14, Appl
318	84	3.2	397	1	US-09-086-662-2	Sequence 2, Appli	Sequence 2, Appli	391	82	3.1	543	2	US-09-470-881-8	Sequence 8, Appli
319	84	3.2	504	1	US-08-135-511-30	Sequence 30, Appl	Sequence 30, Appl	392	82	3.1	543	2	US-09-538-092-870	Sequence 870, App

393	82	3.1	543	2	US-09-977-261-14	Sequence 14, Appl	466	81	3.1	491	2	US-09-134-001C-4677	Sequence 4677, Ap
394	82	3.1	543	4	PCT-US95-05008-14	Sequence 14, Appl	467	81	3.1	498	2	US-08-686-968C-231	Sequence 231, App
395	82	3.1	581	2	US-09-323-872A-46	Sequence 46, Appl	468	81	3.1	500	2	US-09-949-016-7131	Sequence 7131, Ap
396	82	3.1	614	2	US-10-257-637-2	Sequence 2, Appl	469	81	3.1	550	2	US-09-328-352-5333	Sequence 5333, Ap
397	82	3.1	647	1	US-07-894-212A-8	Sequence 8, Appl	470	81	3.1	558	2	US-09-538-092-8322	Sequence 832, App
398	82	3.1	649	1	US-07-894-212A-2	Sequence 2, Appl	471	81	3.1	575	2	US-09-549-016-7622	Sequence 7622, App
399	82	3.1	650	1	US-07-893-928A-1	Sequence 1, Appl	472	81	3.1	575	2	US-09-949-016-7623	Sequence 7623, Ap
400	82	3.1	743	1	US-09-585-858-13	Sequence 13, Appl	473	81	3.1	585	2	US-09-248-796A-14925	Sequence 14925, A
401	82	3.1	743	2	US-10-270-878-13	Sequence 13, Appl	474	81	3.1	592	1	US-08-599-171A-30	Sequence 30, Appl
402	82	3.1	897	2	US-09-543-681A-4915	Sequence 4915, Ap	475	81	3.1	592	1	US-08-646-590B-30	Sequence 30, Appl
403	82	3.1	910	2	US-09-623-326-7	Sequence 7, Appl	476	81	3.1	592	2	US-09-069-226-30	Sequence 30, Appl
404	82	3.1	910	2	US-09-623-326-8	Sequence 8, Appl	477	81	3.1	592	2	US-09-412-184-30	Sequence 30, Appl
405	82	3.1	1003	2	US-09-991-181-33	Sequence 33, Appl	478	81	3.1	609	2	US-09-396-149-6	Sequence 6, Appl
406	82	3.1	1003	2	US-09-990-444-33	Sequence 33, Appl	479	81	3.1	610	2	US-09-949-016-7708	Sequence 7708, Ap
407	82	3.1	1003	2	US-09-997-333-33	Sequence 33, Appl	480	81	3.1	677	2	US-09-019-160-3	Sequence 3, Appl
408	82	3.1	1003	2	US-09-992-598-33	Sequence 33, Appl	481	81	3.1	706	2	US-09-538-092-649	Sequence 649, App
409	82	3.1	1029	2	US-09-929-769-7	Sequence 7, Appl	482	81	3.1	708	2	US-09-019-160-5	Sequence 5, Appl
410	82	3.1	1029	2	US-10-033-301-22	Sequence 22, Appl	483	81	3.1	740	2	US-09-323-872A-25	Sequence 25, Appl
411	82	3.1	2368	1	US-08-198-446B-15	Sequence 15, Appl	484	81	3.1	740	2	US-09-072-433-30	Sequence 30, Appl
412	82	3.1	2368	1	US-08-870-693-15	Sequence 15, Appl	485	81	3.1	744	2	US-09-328-352-7920	Sequence 3026, Ap
413	81.5	3.1	335	2	US-09-902-540-12406	Sequence 12406, A	486	81	3.1	873	2	US-09-710-279-3036	Sequence 6, Appl
414	81.5	3.1	440	6	5310667-9	Patent No. 5310667	487	81	3.1	893	2	US-09-019-160-6	Sequence 7, Appl
415	81.5	3.1	442	1	US-08-476-008-64	Sequence 64, Appl	488	81	3.1	893	2	US-09-019-160-7	Sequence 8, Appl
416	81.5	3.1	442	1	US-08-306-063-64	Sequence 64, Appl	489	81	3.1	893	2	US-09-019-160-8	Sequence 9, Appl
417	81.5	3.1	442	1	US-08-833-485-64	Sequence 64, Appl	490	81	3.1	893	2	US-09-019-160-9	Sequence 3600, Ap
418	81.5	3.1	442	1	US-09-137-440-64	Sequence 64, Appl	491	81	3.1	897	2	US-09-134-001C-3600	Sequence 71, Appl
419	81.5	3.1	476	1	US-08-541-033A-26	Sequence 26, Appl	492	81	3.1	1044	2	US-10-197-220-71	Sequence 1058, Ap
420	81.5	3.1	476	1	US-08-828-451-26	Sequence 26, Appl	493	81	3.1	1047	2	US-09-198-452A-1058	Sequence 985, App
421	81.5	3.1	487	1	US-08-541-033A-24	Sequence 24, Appl	494	81	3.1	1047	2	US-09-438-185A-985	Sequence 3634, Ap
422	81.5	3.1	487	1	US-08-828-451-24	Sequence 24, Appl	495	81	3.1	1203	2	US-09-583-110-3634	Sequence 4255, Ap
423	81.5	3.1	512	1	US-08-541-033A-4	Sequence 4, Appl	496	81	3.1	1216	2	US-09-107-433-4255	Sequence 75, Appl
424	81.5	3.1	512	1	US-08-828-451-4	Sequence 4, Appl	497	80.5	3.1	273	1	US-08-997-080-75	Sequence 75, Appl
425	81.5	3.1	514	2	US-09-717-432-2	Sequence 2, Appl	498	80.5	3.1	273	1	US-08-997-362-75	Sequence 75, Appl
426	81.5	3.1	514	2	US-09-512-484-2	Sequence 2, Appl	499	80.5	3.1	273	2	US-08-873-970-75	Sequence 75, Appl
427	81.5	3.1	526	1	US-08-541-033A-2	Sequence 2, Appl	500	80.5	3.1	273	2	US-09-095-855-75	Sequence 75, Appl
428	81.5	3.1	526	1	US-08-828-451-2	Sequence 2, Appl	501	80.5	3.1	273	2	US-09-324-542-75	Sequence 75, Appl
429	81.5	3.1	539	2	US-08-687-590-27	Sequence 27, Appl	502	80.5	3.1	273	2	US-09-205-426-75	Sequence 75, Appl
430	81.5	3.1	539	2	US-09-702-705-326	Sequence 326, App	503	80.5	3.1	300	2	US-09-248-796A-17946	Sequence 17946, A
431	81.5	3.1	539	2	US-09-736-457-326	Sequence 326, App	504	80.5	3.1	371	2	US-09-134-000C-5173	Sequence 5173, Ap
432	81.5	3.1	539	2	US-09-614-124B-326	Sequence 326, App	505	80.5	3.1	464	2	US-09-583-110-3968	Sequence 3968, Ap
433	81.5	3.1	539	2	US-09-671-325-326	Sequence 326, App	506	80.5	3.1	468	2	US-09-107-433-4005	Sequence 4005, Ap
434	81.5	3.1	539	2	US-09-589-184-326	Sequence 326, App	507	80.5	3.1	478	2	US-09-489-039A-10194	Sequence 10194, A
435	81.5	3.1	539	2	US-09-658-824-326	Sequence 326, App	508	80.5	3.1	500	2	US-08-926-842B-16	Sequence 16, App
436	81.5	3.1	539	2	US-10-017-754-326	Sequence 326, App	509	80.5	3.1	571	2	US-09-710-279-118	Sequence 118, App
437	81.5	3.1	539	2	US-09-651-563-326	Sequence 326, App	510	80.5	3.1	707	2	US-09-902-540-16063	Sequence 16063, A
438	81.5	3.1	539	2	US-09-519-642-326	Sequence 326, App	511	80.5	3.1	921	2	US-09-506-800-11	Sequence 11, Appl
439	81.5	3.1	573	2	US-09-134-001C-5026	Sequence 5026, Ap	512	80.5	3.1	924	2	US-09-267-311-2	Sequence 2, Appl
440	81.5	3.1	619	2	US-10-197-220-77	Sequence 77, Appl	513	80.5	3.1	942	2	US-09-171-937C-40	Sequence 40, Appl
441	81.5	3.1	624	2	US-09-198-452A-1089	Sequence 1089, Ap	514	80.5	3.1	1057	2	US-08-853-948B-2	Sequence 2, Appl
442	81.5	3.1	624	2	US-09-438-185A-1017	Sequence 1017, Ap	515	80.5	3.1	1057	2	US-09-697-367-23	Sequence 23, Appl
443	81.5	3.1	635	2	US-08-506-296B-71	Sequence 6, Appl	516	80.5	3.1	1057	2	US-09-394-272-2	Sequence 2, Appl
444	81.5	3.1	702	2	US-09-107-532A-6866	Sequence 6866, Ap	517	80.5	3.1	1057	2	US-09-918-909A-29	Sequence 29, Appl
445	81.5	3.1	704	2	US-09-302-540-10479	Sequence 10479, A	518	80.5	3.1	1146	2	US-08-914-999-6	Sequence 6, Appl
446	81.5	3.1	800	2	US-08-776-265-3	Sequence 3, Appl	519	80.5	3.1	1150	1	US-08-589-756-3	Sequence 3, Appl
447	81.5	3.1	800	2	US-09-398-184-3	Sequence 3, Appl	520	80.5	3.1	1150	2	US-09-206-800-3	Sequence 3, Appl
448	81.5	3.1	819	2	US-09-902-540-13635	Sequence 13635, A	521	80.5	3.1	1150	2	US-09-206-898-3	Sequence 3, Appl
449	81.5	3.1	830	2	US-10-033-301-7	Sequence 7, Appl	522	80.5	3.1	1150	2	US-09-870-122A-3	Sequence 3, Appl
450	81.5	3.1	837	2	US-09-012-710-12	Sequence 12, Appl	523	80.5	3.1	1711	2	US-09-771-161A-219	Sequence 219, App
451	81.5	3.1	837	2	US-09-556-273-12	Sequence 12, Appl	524	80.5	3.1	1711	2	US-09-320-878-2	Sequence 2, Appl
452	81.5	3.1	977	2	US-09-248-796A-15579	Sequence 15579, A	525	80.5	3.1	3739	2	US-09-105-537-33	Sequence 33, Appl
453	81.5	3.1	1755	2	US-09-724-126A-6	Sequence 6, Appl	526	80.5	3.1	3739	2	US-09-141-908-3	Sequence 3, Appl
454	81.5	3.1	2138	2	US-09-583-110-5274	Sequence 5274, Ap	527	80.5	3.1	3739	2	US-09-657-440-2	Sequence 2, Appl
455	81	3.1	319	2	US-09-489-039A-8872	Sequence 8872, Ap	528	80.5	3.1	3739	2	US-09-793-708-2	Sequence 2, Appl
456	81	3.1	340	2	US-09-134-001C-3258	Sequence 3258, Ap	529	80.5	3.1	3739	2	US-09-543-681A-8069	Sequence 8069, Ap
457	81	3.1	413	2	US-09-252-991A-21766	Sequence 21766, A	530	80	3.0	304	2	US-09-248-796A-20373	Sequence 20373, A
458	81	3.1	421	2	US-09-949-016-5872	Sequence 5872, Ap	531	80	3.0	314	2	US-09-248-796A-17148	Sequence 17148, A
459	81	3.1	425	1	US-08-615-170-17	Sequence 17, Appl	532	80	3.0	327	2	US-09-540-236-2714	Sequence 2714, Ap
460	81	3.1	475	2	US-09-769-787-152	Sequence 152, App	533	80	3.0	330	2	US-09-540-236-2714	Patent No. 5474928
461	81	3.1	475	2	US-09-438-185A-835	Sequence 835, App	534	80	3.0	399	6	5474928-2	Sequence 7956, Ap
462	81	3.1	485	2	US-09-009-494-2	Sequence 2, Appl	535	80	3.0	401	2	US-09-949-016-7956	Sequence 11773, A
463	81	3.1	485	2	US-09-010-233-8	Sequence 8, Appl	536	80	3.0	445	2	US-09-489-039A-11173	Sequence 11173, A
464	81	3.1	485	2	US-09-010-232-4	Sequence 4, Appl	537	80	3.0	459	2	US-09-949-016-11641	Sequence 11641, A
465	81	3.1	485	2	US-09-710-279-1346	Sequence 1346, Ap	538	80	3.0	476	2	US-10-376-397B-2	Sequence 2, Appl

539	80	3.0	485	2	US-10-138-701-28	Sequence 28, Appl	612	79	3.0	400	2	US-09-536-784-190	Sequence 190, App
540	80	3.0	529	2	US-09-710-262E-4	Sequence 4, Appl1	613	79	3.0	400	2	US-09-765-271-190	Sequence 190, App
541	80	3.0	544	2	US-09-328-352-6896	Sequence 6896, Ap	614	79	3.0	400	2	US-09-765-272A-190	Sequence 190, App
542	80	3.0	550	2	US-09-328-352-5727	Sequence 5727, Ap	615	79	3.0	404	2	US-09-252-991A-19166	Sequence 19166, A
543	80	3.0	552	1	US-08-116-098-2	Sequence 2, Appl1	616	79	3.0	404	2	US-09-489-039A-13783	Sequence 13783, A
544	80	3.0	552	2	US-08-687-590-32	Sequence 32, Appl	617	79	3.0	408	2	US-09-540-236-2740	Sequence 2740, Ap
545	80	3.0	582	2	US-09-107-433-5141	Sequence 5141, Ap	618	79	3.0	423	2	US-08-923-454A-6	Sequence 6, Appl1
546	80	3.0	587	2	US-09-583-110-4237	Sequence 4237, Ap	619	79	3.0	432	1	US-08-615-170-3	Sequence 3, Appl1
547	80	3.0	592	2	US-09-813-453B-43	Sequence 43, Appl	620	79	3.0	436	2	US-08-923-454A-29	Sequence 29, Appl
548	80	3.0	592	2	US-09-303-518D-234	Sequence 234, App	621	79	3.0	445	1	US-08-615-170-5	Sequence 5, Appl1
549	80	3.0	609	2	US-10-138-075-2	Sequence 2, Appl1	622	79	3.0	446	2	US-09-081-686-2	Sequence 2, Appl1
550	80	3.0	703	2	US-09-248-796A-14529	Sequence 14529, A	623	79	3.0	460	2	US-09-266-965-126	Sequence 126, App
551	80	3.0	758	2	US-09-124-001C-4588	Sequence 4588, Ap	624	79	3.0	472	2	US-09-913-204-11	Sequence 11, Appl
552	80	3.0	812	2	US-09-166-350-12	Sequence 12, Appl	625	79	3.0	478	2	US-09-134-000C-5543	Sequence 5543, Ap
553	80	3.0	868	2	US-09-830-433A-73	Sequence 73, Appl	626	79	3.0	478	2	US-09-502-540-14070	Sequence 14070, A
554	80	3.0	893	2	US-08-484-661A-2	Sequence 2, Appl1	627	79	3.0	486	2	US-09-949-016-10286	Sequence 10286, A
555	80	3.0	893	2	US-08-656-664-2	Sequence 2, Appl1	628	79	3.0	525	2	US-09-212-247C-11	Sequence 11, Appl
556	80	3.0	893	4	PCT-US96-09641-2	Sequence 2, Appl1	629	79	3.0	525	2	US-10-076-157-11	Sequence 11, Appl
557	80	3.0	1123	2	US-09-262-537-4	Sequence 4, Appl1	630	79	3.0	533	2	US-09-549-519-31	Sequence 31, Appl
558	80	3.0	1161	2	US-09-327-536-2	Sequence 2, Appl1	631	79	3.0	578	2	US-09-134-000C-5811	Sequence 3811, Ap
559	80	3.0	1204	2	US-09-583-110-4083	Sequence 4083, Ap	632	79	3.0	583	2	US-09-583-110-3571	Sequence 3571, Ap
560	80	3.0	1262	2	US-09-107-433-5067	Sequence 5067, Ap	633	79	3.0	610	2	US-08-484-661A-16	Sequence 16, Appl
561	80	3.0	1289	1	US-08-542-003-2	Sequence 2, Appl1	634	79	3.0	610	2	US-08-484-661A-29	Sequence 29, Appl
562	80	3.0	1289	1	US-08-322-760A-2	Sequence 2, Appl1	635	79	3.0	610	2	US-08-484-661A-35	Sequence 35, Appl
563	80	3.0	1289	2	US-09-236-949-2	Sequence 2, Appl1	636	79	3.0	610	2	US-08-656-664-16	Sequence 16, Appl
564	80	3.0	1313	1	US-08-244-537-2	Sequence 2, Appl1	637	79	3.0	610	2	US-08-656-664-29	Sequence 29, Appl
565	80	3.0	2325	2	US-08-417-089-6	Sequence 6, Appl1	638	79	3.0	610	2	US-08-656-664-35	Sequence 35, Appl
566	80	3.0	2325	2	US-08-695-651-6	Sequence 6, Appl1	639	79	3.0	610	4	PCT-US96-09641-16	Sequence 16, Appl
567	80	3.0	2325	2	US-08-930-285-6	Sequence 6, Appl1	640	79	3.0	610	4	PCT-US96-09641-29	Sequence 29, Appl
568	80	3.0	2325	2	US-08-695-421-6	Sequence 6, Appl1	641	79	3.0	610	4	PCT-US96-09641-35	Sequence 35, Appl
569	80	3.0	2325	2	US-08-697-826A-10	Sequence 10, Appl	642	79	3.0	610	4	PCT-US96-09641-54	Sequence 54, Appl
570	79.5	3.0	205	6	5175383-6	Patent No. 5175383	643	79	3.0	610	4	PCT-US96-09641-54	Sequence 54, Appl
571	79.5	3.0	329	1	US-08-913-477-4	Sequence 4, Appl1	644	79	3.0	636	2	US-09-270-767-45810	Sequence 45810, A
572	79.5	3.0	406	2	US-09-107-532A-5410	Sequence 5410, Ap	645	79	3.0	637	2	US-10-257-637-4	Sequence 4, Appl1
573	79.5	3.0	415	2	US-09-898-461-7	Sequence 7, Appl1	646	79	3.0	643	2	US-09-538-092-389	Sequence 389, App
574	79.5	3.0	442	2	US-09-769-787-6	Sequence 6, Appl1	647	79	3.0	656	2	US-09-538-092-654	Sequence 654, App
575	79.5	3.0	493	2	US-09-710-279-1832	Sequence 1832, Ap	648	79	3.0	666	2	US-09-252-991A-17462	Sequence 17462, A
576	79.5	3.0	511	2	US-09-902-540-10893	Sequence 10893, A	649	79	3.0	740	1	US-08-309-512-10	Sequence 10, Appl
577	79.5	3.0	513	2	US-09-134-001C-4490	Sequence 4490, Ap	650	79	3.0	740	1	PCT-US92-08756A-10	Sequence 10, Appl
578	79.5	3.0	524	2	US-09-549-519-27	Sequence 27, Appl	651	79	3.0	780	2	US-09-262-537-10	Sequence 10, Appl
579	79.5	3.0	524	2	US-09-549-519-28	Sequence 28, Appl	652	79	3.0	823	2	US-09-252-991A-31026	Sequence 31026, A
580	79.5	3.0	593	2	US-09-134-001C-3991	Sequence 3991, Ap	653	79	3.0	841	2	US-09-546-990-2	Sequence 2, Appl1
581	79.5	3.0	629	1	US-09-569-037-9	Sequence 9, Appl1	654	79	3.0	1114	2	US-09-262-537-34	Sequence 34, Appl
582	79.5	3.0	729	1	US-08-417-276-2	Sequence 2, Appl1	655	79	3.0	1177	2	US-09-262-537-2	Sequence 2, Appl1
583	79.5	3.0	735	2	US-09-585-858-10	Sequence 10, Appl	656	79	3.0	1336	1	US-08-231-193A-58	Sequence 58, Appl
584	79.5	3.0	735	2	US-10-270-878-10	Sequence 10, Appl	657	79	3.0	1336	1	US-08-486-273A-58	Sequence 58, Appl
585	79.5	3.0	773	1	US-08-484-101B-42	Sequence 42, Appl	658	79	3.0	1336	2	US-08-940-086A-58	Sequence 58, Appl
586	79.5	3.0	773	1	US-08-484-101B-44	Sequence 44, Appl	659	79	3.0	1336	2	US-08-940-035A-58	Sequence 58, Appl
587	79.5	3.0	773	2	US-08-714-524D-42	Sequence 42, Appl	660	79	3.0	1336	2	US-08-935-105A-58	Sequence 58, Appl
588	79.5	3.0	773	2	US-08-714-524D-44	Sequence 44, Appl	661	79	3.0	1336	2	US-09-648-797-58	Sequence 58, Appl
589	79.5	3.0	773	2	US-09-590-991-8	Sequence 8, Appl1	662	79	3.0	1336	2	US-09-386-123-58	Sequence 58, Appl
590	79.5	3.0	793	1	US-08-468-558-5	Sequence 5, Appl1	663	79	3.0	1336	2	US-10-038-937-58	Sequence 58, Appl
591	79.5	3.0	793	2	US-08-676-444-5	Sequence 5, Appl1	664	79	3.0	1336	2	US-10-007-747-58	Sequence 58, Appl
592	79.5	3.0	975	2	US-09-646-533D-8	Sequence 8, Appl1	665	79	3.0	1336	2	US-09-945-901-58	Sequence 58, Appl
593	79.5	3.0	1052	1	US-08-863-118-2	Sequence 2, Appl1	666	79	3.0	1403	2	US-09-262-537-6	Sequence 6, Appl1
594	79.5	3.0	1055	1	US-08-659-251-5	Sequence 5, Appl1	667	79	3.0	1404	2	US-09-345-473E-24	Sequence 24, Appl
595	79.5	3.0	1055	2	US-09-256-490-5	Sequence 5, Appl1	668	79	3.0	1404	2	US-09-862-027-24	Sequence 24, Appl
596	79.5	3.0	1055	4	PCT-US96-11445-5	Sequence 5, Appl1	669	79	3.0	1735	2	US-09-902-540-14547	Sequence 14547, A
597	79.5	3.0	1088	2	US-10-001-887-127	Sequence 127, App	670	79	3.0	3074	2	US-09-543-681A-5508	Sequence 5508, Ap
598	79.5	3.0	1129	2	US-09-252-991A-22330	Sequence 22330, A	671	78.5	3.0	271	2	US-09-489-039A-8280	Sequence 8280, Ap
599	79.5	3.0	1178	2	US-09-489-039A-9944	Sequence 9944, Ap	672	78.5	3.0	348	2	US-10-004-115B-34	Sequence 34, Appl
600	79.5	3.0	1201	2	US-09-252-991A-32259	Sequence 32259, A	673	78.5	3.0	385	2	US-09-984-334-1	Sequence 1, Appl1
601	79.5	3.0	1422	2	US-09-540-236-3021	Sequence 3021, Ap	674	78.5	3.0	402	1	US-08-403-852D-19	Sequence 19, Appl
602	79.5	3.0	1447	1	US-09-376-330-17	Sequence 17, Appl	675	78.5	3.0	402	2	US-08-510-646B-20	Sequence 20, Appl
603	79.5	3.0	1627	1	US-07-665-792E-9	Sequence 9, Appl1	676	78.5	3.0	402	2	US-09-231-818-19	Sequence 19, Appl
604	79	3.0	284	2	US-09-949-016-9557	Sequence 9557, Ap	677	78.5	3.0	402	2	US-09-635-359B-19	Sequence 19, Appl
605	79	3.0	323	1	US-07-992-827D-1	Sequence 1, Appl1	678	78.5	3.0	436	2	US-09-252-991A-18821	Sequence 18821, A
606	79	3.0	323	1	US-08-216-593-1	Sequence 1, Appl1	679	78.5	3.0	446	2	US-09-583-110-4349	Sequence 398, App
607	79	3.0	323	4	PCT-US93-12380-1	Sequence 1, Appl1	680	78.5	3.0	450	2	US-09-492-709A-398	Sequence 28, Appl
608	79	3.0	329	1	US-08-913-477-2	Sequence 2, Appl1	681	78.5	3.0	513	2	US-08-369-822C-28	Sequence 43, Appl
609	79	3.0	372	2	US-09-107-433-3106	Sequence 3106, Ap	682	78.5	3.0	513	2	US-08-582-776C-43	Sequence 43, Appl
610	79	3.0	374	2	US-09-134-000C-5319	Sequence 5319, Ap	683	78.5	3.0	513	2	US-08-434-831B-40	Sequence 40, Appl
611	79	3.0	400	2	US-08-961-083-190	Sequence 190, App	684	78.5	3.0	519	2	US-09-107-532A-6778	Sequence 6778, Ap

685	78.5	3.0	520	2	US-09-949-016-8026	Sequence 8026, Ap	758	78	3.0	558	2	US-09-538-092-1153	Sequence 1153, Ap
686	78.5	3.0	599	2	US-10-138-075-5	Sequence 5, Appli	759	78	3.0	559	2	US-09-595-682B-28	Sequence 28, Appli
687	78.5	3.0	668	2	US-09-902-540-14244	Sequence 14244, A	760	78	3.0	559	2	US-09-949-016-6426	Sequence 6426, Ap
688	78.5	3.0	668	2	US-09-949-016-8895	Sequence 8895, Ap	761	78	3.0	559	2	US-10-019-219-7	Sequence 7, Appli
689	78.5	3.0	682	2	US-08-836-687B-37	Sequence 37, Appli	762	78	3.0	577	2	US-09-949-016-9670	Sequence 9670, Ap
690	78.5	3.0	700	1	US-08-726-525-7	Sequence 7, Appli	763	78	3.0	580	2	US-08-818-112-75	Sequence 75, Appli
691	78.5	3.0	700	1	US-08-487-942-7	Sequence 7, Appli	764	78	3.0	580	2	US-08-818-111-76	Sequence 76, Appli
692	78.5	3.0	700	1	US-08-726-036A-7	Sequence 7, Appli	765	78	3.0	580	2	US-09-056-556-75	Sequence 75, Appli
693	78.5	3.0	700	2	US-09-422-869-23	Sequence 23, Appli	766	78	3.0	580	2	US-09-072-596-76	Sequence 75, Appli
694	78.5	3.0	700	2	US-09-083-516-7	Sequence 7, Appli	767	78	3.0	580	2	US-09-072-967-75	Sequence 76, Appli
695	78.5	3.0	700	2	US-09-538-092-947	Sequence 947, App	768	78	3.0	580	2	US-10-193-002-76	Sequence 76, Appli
696	78.5	3.0	700	2	US-09-884-319A-7	Sequence 7, Appli	769	78	3.0	580	2	US-10-084-843-75	Sequence 75, Appli
697	78.5	3.0	804	2	US-09-134-001C-5218	Sequence 5218, Ap	770	78	3.0	595	2	US-09-270-767-43484	Sequence 43484, A
698	78.5	3.0	862	2	US-09-346-237-1	Sequence 1, Appli	771	78	3.0	636	2	US-09-564-805-237	Sequence 237, App
699	78.5	3.0	956	2	US-09-914-259-17	Sequence 17, Appli	772	78	3.0	647	2	US-08-483-577A-148	Sequence 148, App
700	78.5	3.0	1020	1	US-08-070-301-3	Sequence 3, Appli	773	78	3.0	647	2	US-08-897-438-148	Sequence 148, App
701	78.5	3.0	1571	2	US-08-956-991-11	Sequence 11, Appli	774	78	3.0	660	1	US-08-649-518-148	Sequence 8, Appli
702	78.5	3.0	1618	1	US-07-853-913-4	Sequence 4, Appli	775	78	3.0	660	1	US-08-487-890A-8	Sequence 8, Appli
703	78.5	3.0	1618	2	US-09-538-092-1143	Sequence 1143, Ap	776	78	3.0	660	1	US-08-487-890A-10	Sequence 10, Appli
704	78.5	3.0	1618	2	US-09-731-255-2	Sequence 2, Appli	777	78	3.0	660	1	US-08-478-435-8	Sequence 8, Appli
705	78.5	3.0	1618	2	US-10-136-891-2	Sequence 2, Appli	778	78	3.0	660	1	US-08-478-435-10	Sequence 10, Appli
706	78.5	3.0	1910	2	US-08-956-991-2	Sequence 2, Appli	779	78	3.0	660	1	US-08-337-483-8	Sequence 8, Appli
707	78.5	3.0	4302	2	US-08-658-136-5	Sequence 5, Appli	780	78	3.0	660	1	US-08-337-483-10	Sequence 10, Appli
708	78.5	3.0	4302	2	US-09-052-469-8	Sequence 8, Appli	781	78	3.0	660	1	US-08-478-373-8	Sequence 8, Appli
709	78.5	3.0	4302	2	US-08-422-582-8	Sequence 8, Appli	782	78	3.0	660	1	US-08-478-373-10	Sequence 10, Appli
710	78.5	3.0	4302	2	US-09-052-262-8	Sequence 8, Appli	783	78	3.0	660	2	US-08-474-671-8	Sequence 8, Appli
711	78.5	3.0	4303	1	US-08-460-751-2	Sequence 2, Appli	784	78	3.0	660	2	US-08-474-671-10	Sequence 10, Appli
712	78.5	3.0	4303	2	US-09-479-467A-2	Sequence 2, Appli	785	78	3.0	660	2	US-08-483-577A-8	Sequence 8, Appli
713	78.5	3.0	4303	2	US-09-655-160-2	Sequence 2, Appli	786	78	3.0	660	2	US-08-483-577A-10	Sequence 10, Appli
714	78.5	3.0	4339	2	US-09-052-469-6	Sequence 6, Appli	787	78	3.0	660	2	US-08-897-438-8	Sequence 8, Appli
715	78.5	3.0	4339	2	US-08-422-582-6	Sequence 6, Appli	788	78	3.0	660	2	US-08-897-438-10	Sequence 10, Appli
716	78.5	3.0	4339	2	US-09-052-262-6	Sequence 6, Appli	789	78	3.0	660	2	US-08-637-654-8	Sequence 8, Appli
717	78.5	3.0	5069	2	US-10-042-665A-5	Sequence 5, Appli	790	78	3.0	660	2	US-08-637-654-10	Sequence 10, Appli
718	78	3.0	272	2	US-09-583-110-3866	Sequence 3866, Ap	791	78	3.0	660	2	US-08-649-518-8	Sequence 8, Appli
719	78	3.0	310	2	US-09-107-433-4601	Sequence 4601, Ap	792	78	3.0	660	2	US-08-649-518-10	Sequence 10, Appli
720	78	3.0	317	2	US-09-134-000C-5669	Sequence 5669, Ap	793	78	3.0	789	2	US-09-252-991A-30121	Sequence 30121, A
721	78	3.0	345	2	US-09-583-110-4544	Sequence 4544, Ap	794	78	3.0	791	2	US-09-949-016-7237	Sequence 7237, Ap
722	78	3.0	351	2	US-09-107-433-3960	Sequence 3960, Ap	795	78	3.0	801	2	US-10-055-364-41	Sequence 41, Appli
723	78	3.0	389	2	US-09-928-847B-13	Sequence 13, Appli	796	78	3.0	816	1	US-09-358-755-1	Sequence 1, Appli
724	78	3.0	390	2	US-09-248-796A-17588	Sequence 17588, A	797	78	3.0	816	1	US-07-731-157A-4	Sequence 4, Appli
725	78	3.0	401	2	US-09-252-991A-19899	Sequence 19899, A	798	78	3.0	816	1	US-08-229-444B-2	Sequence 2, Appli
726	78	3.0	456	2	US-09-800-170-15	Sequence 15, Appli	799	78	3.0	829	2	US-08-541-780-4	Sequence 4, Appli
727	78	3.0	464	1	US-09-712-363-182	Sequence 182, App	800	78	3.0	829	2	US-09-543-681A-6425	Sequence 6, Appli
728	78	3.0	481	1	US-07-754-918A-13	Sequence 13, Appli	801	78	3.0	829	2	US-09-514-599-6	Sequence 6, Appli
729	78	3.0	481	1	US-08-186-811-2	Sequence 2, Appli	802	78	3.0	829	2	US-09-996-024-6	Sequence 6, Appli
730	78	3.0	481	1	US-08-311-611A-98	Sequence 98, Appli	803	78	3.0	879	2	US-09-107-532A-4679	Sequence 4679, Ap
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732	78	3.0	481	1	US-08-372-105-98	Sequence 98, Appli	805	78	3.0	883	2	US-09-107-433-2964	Sequence 2964, Ap
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734	78	3.0	481	1	US-08-261-660A-4	Sequence 4, Appli	807	78	3.0	927	2	US-09-107-532A-4335	Sequence 4335, Ap
735	78	3.0	481	1	US-08-209-762-98	Sequence 98, Appli	808	78	3.0	1259	2	US-09-187-049-13	Sequence 13, Appli
736	78	3.0	481	1	US-08-473-344-98	Sequence 98, Appli	809	78	3.0	1464	2	US-09-045-360-2	Sequence 2, Appli
737	78	3.0	481	1	US-08-274-303-6	Sequence 6, Appli	810	78	3.0	1464	2	US-09-713-273A-21	Sequence 21, Appli
738	78	3.0	481	1	US-08-377-391A-2	Sequence 2, Appli	811	78	3.0	1464	2	US-09-746-390-2	Sequence 2, Appli
739	78	3.0	481	1	US-08-485-445A-98	Sequence 98, Appli	812	78	3.0	1698	2	US-09-315-793-12	Sequence 12, Appli
740	78	3.0	481	1	US-08-779-400-2	Sequence 2, Appli	813	78	3.0	1896	2	US-09-949-016-9508	Sequence 9508, Ap
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743	78	3.0	481	2	US-08-657-162-98	Sequence 98, Appli	816	77.5	3.0	285	2	US-09-252-991A-29780	Sequence 29780, A
744	78	3.0	481	2	US-09-224-480-98	Sequence 98, Appli	817	77.5	3.0	315	2	US-09-502-540-11852	Sequence 11852, A
745	78	3.0	481	2	US-09-093-539-98	Sequence 98, Appli	818	77.5	3.0	345	2	US-09-328-352-4841	Sequence 4841, Ap
746	78	3.0	481	2	US-09-146-620-2	Sequence 2, Appli	819	77.5	3.0	357	2	US-09-910-174B-14	Sequence 14, Appli
747	78	3.0	481	2	US-09-395-453-2	Sequence 2, Appli	820	77.5	3.0	357	2	US-09-620-461-14	Sequence 14, Appli
748	78	3.0	481	2	US-09-280-909A-4	Sequence 4, Appli	821	77.5	3.0	361	2	US-09-032-372-12	Sequence 12, Appli
749	78	3.0	481	2	US-09-790-230-98	Sequence 98, Appli	822	77.5	3.0	386	2	US-08-972-902-3	Sequence 3, Appli
750	78	3.0	481	2	US-09-949-016-6459	Sequence 6459, Ap	823	77.5	3.0	386	2	US-09-520-207-3	Sequence 3, Appli
751	78	3.0	481	4	PCT-US94-02465-98	Sequence 98, Appli	824	77.5	3.0	386	2	US-10-136-253-3	Sequence 3, Appli
752	78	3.0	481	4	PCT-US94-06931-4	Sequence 4, Appli	825	77.5	3.0	394	2	US-09-252-991A-24485	Sequence 24485, A
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754	78	3.0	481	4	PCT-US95-00498-98	Sequence 98, Appli	827	77.5	3.0	499	2	US-09-543-681A-6892	Sequence 6892, Ap
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756	78	3.0	487	2	US-09-248-796A-17413	Sequence 17413, A	829	77.5	3.0	511	1	US-08-413-118-17	Sequence 17, Appli
757	78	3.0	521	2	US-09-508-370A-3	Sequence 3, Appli	830	77.5	3.0	511	2	US-08-473-446-17	Sequence 17, Appli

831	77.5	3.0	527	2	US-09-248-796A-20846	Sequence 20846, A	904	77	2.9	773	1	US-09-218-032-4	Sequence 4, Appl1
832	77.5	3.0	528	1	US-08-793-229-35	Sequence 35, Appl1	905	77	2.9	850	2	US-09-904-389-2	Sequence 2, Appl1
833	77.5	3.0	528	3	US-09-285-957-35	Sequence 35, Appl1	906	77	2.9	858	2	US-09-134-000C-5428	Sequence 5428, Ap
834	77.5	3.0	552	2	US-09-295-186-10	Sequence 10, Appl1	907	77	2.9	900	2	US-09-252-991A-25011	Sequence 25011, A
835	77.5	3.0	573	2	US-09-295-186-11	Sequence 11, Appl1	908	77	2.9	964	2	US-08-484-791-2	Sequence 2, Appl1
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837	77.5	3.0	649	2	US-09-605-703B-68	Sequence 68, Appl1	910	77	2.9	1156	2	US-09-589-477-72	Sequence 72, Appl1
838	77.5	3.0	669	2	US-09-134-000C-6185	Sequence 6185, Ap	911	77	2.9	1156	2	US-09-661-322A-28	Sequence 28, Appl1
839	77.5	3.0	710	1	US-08-162-809-22	Sequence 22, Appl1	912	77	2.9	1156	2	US-10-099-285A-72	Sequence 72, Appl1
840	77.5	3.0	722	1	US-08-162-809-4	Sequence 4, Appl1	913	77	2.9	1157	1	US-08-532-547-5	Sequence 5, Appl1
841	77.5	3.0	802	2	US-09-538-092-567	Sequence 567, Ap	914	77	2.9	1157	1	US-08-379-656B-5	Sequence 5, Appl1
842	77.5	3.0	802	2	US-09-134-000C-5150	Sequence 5150, Ap	915	77	2.9	1157	2	US-08-455-838-5	Sequence 5, Appl1
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845	77.5	3.0	834	2	US-10-104-047-2323	Sequence 2323, Ap	918	77	2.9	1157	2	US-09-220-806-5	Sequence 5, Appl1
846	77.5	3.0	889	2	US-09-252-991A-30096	Sequence 30096, A	919	77	2.9	1204	2	US-10-449-315-5	Sequence 5, Appl1
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848	77.5	3.0	908	1	US-08-778-656-6	Sequence 6, Appl1	921	77	2.9	2257	2	US-09-839-477-8	Sequence 8, Appl1
849	77.5	3.0	908	2	US-09-376-045-6	Sequence 6, Appl1	922	77	2.9	2257	2	US-09-492-709A-302	Sequence 302, App
850	77.5	3.0	1091	2	US-09-306-595C-7	Sequence 7, Appl1	923	77	2.9	227	2	US-09-489-039A-13495	Sequence 13495, A
851	77.5	3.0	1091	2	US-09-925-388-7	Sequence 7, Appl1	924	77	2.9	293	2	US-09-101-307D-6	Sequence 6, Appl1
852	77.5	3.0	1091	2	US-10-431-846-7	Sequence 7, Appl1	925	77	2.9	314	2	US-09-583-110-3992	Sequence 3992, Ap
853	77.5	3.0	1114	2	US-09-252-991A-24965	Sequence 24965, A	926	77	2.9	315	2	US-09-107-433-4625	Sequence 4625, Ap
854	77.5	3.0	1246	2	US-09-252-991A-23140	Sequence 23140, A	927	77	2.9	328	2	US-09-489-847-310	Sequence 310, App
855	77.5	3.0	2046	2	US-09-949-016-9365	Sequence 9365, Ap	928	77	2.9	349	2	US-10-808-807-4	Sequence 4, Appl1
856	77.5	3.0	2482	2	US-09-252-991A-16967	Sequence 16967, A	929	77	2.9	374	2	US-09-710-279-2162	Sequence 2162, Ap
857	77.5	3.0	4019	2	US-09-854-133-425	Sequence 425, App	930	77	2.9	391	2	US-09-543-681A-5575	Sequence 5575, Ap
858	77	2.9	173	2	US-09-453-976-16	Sequence 16, Appl1	931	77	2.9	398	2	US-09-242-859A-4	Sequence 4, Appl1
859	77	2.9	173	2	US-09-961-453-16	Sequence 16, Appl1	932	77	2.9	398	2	US-09-242-859A-8	Sequence 8, Appl1
860	77	2.9	173	2	US-09-961-507-16	Sequence 16, Appl1	933	77	2.9	406	2	US-09-134-001C-3202	Sequence 3202, Ap
861	77	2.9	173	2	US-09-961-458-16	Sequence 16, Appl1	934	77	2.9	407	2	US-08-955-957A-2	Sequence 2, Appl1
862	77	2.9	173	2	US-09-961-452A-16	Sequence 16, Appl1	935	77	2.9	420	2	US-09-134-001C-3103	Sequence 3103, Ap
863	77	2.9	205	2	US-10-012-231A-287	Sequence 287, App	936	77	2.9	447	2	US-09-724-623-100	Sequence 100, App
864	77	2.9	205	2	US-10-015-389A-287	Sequence 287, App	937	77	2.9	467	2	US-09-489-039A-14156	Sequence 14156, A
865	77	2.9	205	2	US-10-006-768A-287	Sequence 287, App	938	77	2.9	494	2	US-08-484-661A-39	Sequence 39, Appl1
866	77	2.9	205	2	US-10-015-671A-287	Sequence 287, App	939	77	2.9	494	2	US-08-656-664-39	Sequence 39, Appl1
867	77	2.9	205	2	US-10-015-393A-287	Sequence 287, App	940	77	2.9	494	4	PCT-US96-09641-39	Sequence 39, Appl1
868	77	2.9	205	2	US-10-011-833A-287	Sequence 287, App	941	77	2.9	523	2	US-09-538-092-606	Sequence 606, App
869	77	2.9	205	2	US-10-006-041A-287	Sequence 287, App	942	77	2.9	511	2	US-09-489-039A-14269	Sequence 14269, A
870	77	2.9	205	2	US-10-012-064A-287	Sequence 287, App	943	77	2.9	541	2	US-09-949-016-11454	Sequence 11454, A
871	77	2.9	206	2	US-09-205-258-463	Sequence 463, App	944	77	2.9	571	2	US-08-484-661A-37	Sequence 37, Appl1
872	77	2.9	206	2	US-10-004-860-463	Sequence 463, App	945	77	2.9	571	2	US-08-656-664-37	Sequence 37, Appl1
873	77	2.9	291	2	US-09-134-000C-3787	Sequence 3787, Ap	946	77	2.9	571	4	PCT-US96-09641-37	Sequence 37, Appl1
874	77	2.9	335	2	US-09-134-000C-5784	Sequence 5784, Ap	947	77	2.9	572	2	US-09-107-433-3479	Sequence 3479, Ap
875	77	2.9	357	2	US-09-134-001C-4405	Sequence 4405, Ap	948	77	2.9	578	2	US-08-484-661A-11	Sequence 11, Appl1
876	77	2.9	377	2	US-10-037-417-66	Sequence 66, Appl1	949	77	2.9	578	2	US-08-656-664-11	Sequence 11, Appl1
877	77	2.9	378	2	US-09-134-000C-5593	Sequence 5593, Ap	950	77	2.9	578	4	US-09-949-016-9799	Sequence 9799, Ap
878	77	2.9	379	2	US-09-692-570-15	Sequence 15, Appl1	951	77	2.9	578	4	PCT-US96-09641-11	Sequence 11, Appl1
879	77	2.9	418	2	US-09-538-092-1122	Sequence 1122, Ap	952	77	2.9	596	2	US-09-345-473B-21	Sequence 21, Appl1
880	77	2.9	462	2	US-09-248-796A-17149	Sequence 17149, A	953	77	2.9	596	2	US-09-862-027-21	Sequence 21, Appl1
881	77	2.9	476	2	US-09-188-579-114	Sequence 114, App	954	77	2.9	607	2	US-09-949-016-6293	Sequence 6293, Ap
882	77	2.9	476	2	US-09-315-444-114	Sequence 114, App	955	77	2.9	610	2	US-08-484-661A-8	Sequence 8, Appl1
883	77	2.9	476	2	US-09-721-362-114	Sequence 114, App	956	77	2.9	610	2	US-08-484-661A-19	Sequence 19, Appl1
884	77	2.9	502	2	US-09-949-016-7837	Sequence 7837, Ap	957	77	2.9	610	2	US-08-484-661A-23	Sequence 23, Appl1
885	77	2.9	512	2	US-09-543-681A-7997	Sequence 7997, Ap	958	77	2.9	610	2	US-08-484-661A-36	Sequence 36, Appl1
886	77	2.9	515	2	US-09-543-681A-5651	Sequence 5651, Ap	959	77	2.9	610	2	US-08-484-661A-23	Sequence 23, Appl1
887	77	2.9	517	2	US-09-902-540-10229	Sequence 10229, A	960	77	2.9	610	2	US-08-484-661A-36	Sequence 36, Appl1
888	77	2.9	521	2	US-09-107-532A-3961	Sequence 3961, Ap	961	77	2.9	610	2	US-08-656-664-8	Sequence 8, Appl1
889	77	2.9	587	1	US-08-844-280-2	Sequence 2, Appl1	962	77	2.9	610	2	US-08-656-664-19	Sequence 19, Appl1
890	77	2.9	587	2	US-09-006-728-2	Sequence 2, Appl1	963	77	2.9	610	2	US-08-656-664-23	Sequence 23, Appl1
891	77	2.9	610	2	US-09-019-160-4	Sequence 4, Appl1	964	77	2.9	610	2	US-08-656-664-26	Sequence 26, Appl1
892	77	2.9	625	1	US-08-532-547-9	Sequence 7, Appl1	965	77	2.9	610	2	PCT-US96-09641-8	Sequence 8, Appl1
893	77	2.9	625	1	US-08-532-547-9	Sequence 7, Appl1	966	77	2.9	610	4	PCT-US96-09641-19	Sequence 19, Appl1
894	77	2.9	625	2	US-09-019-809-7	Sequence 7, Appl1	967	77	2.9	610	4	PCT-US96-09641-23	Sequence 23, Appl1
895	77	2.9	625	2	US-09-019-809-9	Sequence 9, Appl1	968	77	2.9	610	4	PCT-US96-09641-26	Sequence 26, Appl1
896	77	2.9	625	2	US-09-471-177-7	Sequence 7, Appl1	969	77	2.9	610	4	PCT-US96-09641-33	Sequence 33, Appl1
897	77	2.9	625	2	US-09-471-177-9	Sequence 9, Appl1	970	77	2.9	732	2	US-09-107-532A-6192	Sequence 6192, Ap
898	77	2.9	637	2	US-09-134-000C-4594	Sequence 4594, Ap	971	77	2.9	745	2	US-09-543-681A-4267	Sequence 4267, Ap
899	77	2.9	649	2	US-10-104-047-3492	Sequence 3492, Ap	972	77	2.9	750	2	US-09-248-796A-14886	Sequence 14886, A
900	77	2.9	751	2	US-09-252-991A-22770	Sequence 22770, A	973	77	2.9	775	2	US-09-107-532A-6639	Sequence 6639, Ap
901	77	2.9	773	1	US-08-966-389-4	Sequence 4, Appl1	974	77	2.9	800	2	US-09-489-039A-10358	Sequence 10358, A
902	77	2.9	773	1	US-09-103-509-4	Sequence 4, Appl1	975	77	2.9	857	2	US-09-902-540-12312	Sequence 12312, A
903	77	2.9	773	1	US-09-102-644-4	Sequence 4, Appl1	976	77	2.9	883	2	US-09-248-796A-14418	Sequence 14418, A

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978	76.5	2.9	944	2	US-09-328-352-4401	Sequence 4401, Ap	1051	75.5	2.9	313	2	US-09-148-545-236	Sequence 236, App
979	76.5	2.9	959	2	US-09-949-016-6904	Sequence 6904, Ap	1052	75.5	2.9	313	2	US-09-248-796A-15393	Sequence 15393, A
980	76.5	2.9	974	2	US-09-540-236-2913	Sequence 2913, Ap	1053	75.5	2.9	313	2	US-09-621-011-236	Sequence 236, App
981	76.5	2.9	981	2	US-09-949-016-11647	Sequence 11647, A	1054	75.5	2.9	327	2	US-09-585-858-53	Sequence 53, Appl
982	76.5	2.9	981	2	US-09-949-016-11648	Sequence 11648, A	1055	75.5	2.9	327	2	US-10-270-878-53	Sequence 53, Appl
983	76.5	2.9	1010	2	US-09-654-449-2	Sequence 2, Appli	1056	75.5	2.9	362	2	US-09-134-000C-6241	Sequence 6241, Ap
984	76.5	2.9	1010	2	US-09-759-152A-2	Sequence 2, Appli	1057	75.5	2.9	375	2	US-09-248-796A-18358	Sequence 18358, A
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986	76.5	2.9	1121	1	US-07-789-915A-2	Sequence 2, Appli	1059	75.5	2.9	410	1	US-08-792-283A-2	Sequence 2, Appli
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988	76.5	2.9	1121	1	US-08-487-203A-2	Sequence 2, Appli	1061	75.5	2.9	410	2	US-09-271-713-2	Sequence 6, Appli
989	76.5	2.9	1190	1	US-09-107-532A-7146	Sequence 7146, Ap	1062	75.5	2.9	412	2	US-09-950-772-6	Sequence 23448, A
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991	76.5	2.9	1334	2	US-09-949-016-6029	Sequence 6029, Ap	1064	75.5	2.9	447	2	US-09-610-104C-2	Sequence 6, Appli
992	76.5	2.9	1367	2	US-09-716-964B-138	Sequence 138, App	1065	75.5	2.9	476	2	US-09-134-218-6	Sequence 8173, Ap
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995	76.5	2.9	1403	1	US-08-535-837-3	Sequence 3, Appli	1068	75.5	2.9	518	2	US-09-328-352-7332	Sequence 7451, Ap
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997	76.5	2.9	1403	2	US-09-383-912-17	Sequence 17, Appl	1070	75.5	2.9	523	2	US-09-198-452A-1101	Sequence 1028, Ap
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999	76.5	2.9	2549	2	US-08-305-790B-2	Sequence 2, Appli	1072	75.5	2.9	575	1	US-08-348-920-1	Sequence 2, Appli
1000	76.5	2.9	2616	6	5206163-3	Patent No. 5206163	1073	75.5	2.9	603	2	US-10-273-051-2	Sequence 6, Appli
1001	76.5	2.9	3135	1	US-08-323-170B-2	Sequence 2, Appli	1074	75.5	2.9	603	2	US-09-732-615-2	Sequence 2, Appli
1002	76.5	2.9	3135	2	US-08-954-441-2	Sequence 2, Appli	1075	75.5	2.9	625	2	US-08-759-436-3	Sequence 3, Appli
1003	76	2.9	239	2	US-08-830-230A-242	Sequence 242, App	1076	75.5	2.9	625	2	US-08-759-436-5	Sequence 3, Appli
1004	76	2.9	245	2	US-08-836-687B-33	Sequence 33, Appl	1077	75.5	2.9	699	2	US-10-012-231A-12	Sequence 12, Appl
1005	76	2.9	273	2	US-09-830-230A-241	Sequence 241, App	1078	75.5	2.9	699	2	US-10-015-389A-12	Sequence 12, Appl
1006	76	2.9	304	2	US-09-248-796A-14813	Sequence 14813, A	1079	75.5	2.9	699	2	US-10-006-768A-12	Sequence 12, Appl
1007	76	2.9	315	2	US-09-492-709A-306	Sequence 306, App	1080	75.5	2.9	699	2	US-10-015-671A-12	Sequence 12, Appl
1008	76	2.9	333	2	US-09-710-279-1960	Sequence 1960, Ap	1081	75.5	2.9	699	2	US-10-015-393A-12	Sequence 12, Appl
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1013	76	2.9	391	2	US-09-543-681A-6610	Sequence 6610, Ap	1086	75.5	2.9	737	2	US-10-070-634-3	Sequence 3, Appli
1014	76	2.9	398	2	US-09-583-110-3408	Sequence 3408, Ap	1087	75.5	2.9	749	2	US-09-543-681A-6437	Sequence 6437, Ap
1015	76	2.9	413	2	US-09-248-796A-14455	Sequence 14455, A	1088	75.5	2.9	749	2	US-09-107-532A-6890	Sequence 6890, Ap
1016	76	2.9	422	2	US-09-949-016-11004	Sequence 11004, A	1089	75.5	2.9	747	2	US-09-902-540-16170	Sequence 16170, A
1017	76	2.9	447	2	US-10-082-272-2	Sequence 2, Appli	1090	75.5	2.9	749	2	US-09-562-737-93	Sequence 93, Appl
1018	76	2.9	481	2	US-08-431-517F-2	Sequence 2, Appli	1091	75.5	2.9	818	2	US-09-328-352-5208	Sequence 5208, Ap
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1021	76	2.9	532	2	US-08-329-892B-33	Sequence 33, Appl	1094	75.5	2.9	931	2	US-09-949-016-10552	Sequence 10552, A
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1023	76	2.9	576	2	US-09-248-796A-20180	Sequence 20180, A	1096	75.5	2.9	1077	2	US-09-390-234-12	Sequence 12, Appl
1024	76	2.9	597	2	US-09-489-039A-12394	Sequence 12394, A	1097	75.5	2.9	1077	2	US-09-603-311-12	Sequence 2, Appli
1025	76	2.9	617	2	US-09-107-433-4596	Sequence 4596, Ap	1098	75.5	2.9	1138	1	US-07-973-320-2	Sequence 4, Appli
1026	76	2.9	648	2	US-09-183-706-43	Sequence 43, Appl	1099	75.5	2.9	1138	1	US-07-973-320-4	Sequence 11682, A
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1031	76	2.9	668	2	US-09-830-230A-237	Sequence 237, App	1104	75.5	2.9	1275	2	US-08-426-630-49	Sequence 177, App
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1042	76	2.9	1151	2	US-08-840-006-6	Sequence 6, Appli	1115	75	2.9	201	1	US-08-236-427-3	Sequence 42260, A
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1044	76	2.9	1300	2	US-09-698-341-3	Sequence 3, Appli	1117	75	2.9	314	2	US-08-981-957D-13	Sequence 13, Appl
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1046	76	2.9	2254	1	US-08-677-010-3	Sequence 3, Appli	1119	75	2.9	315	2	US-08-793-035-9	Sequence 10, Appl
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1131	75	2.9	477	1	US-08-990-849-2	Sequence 2, Appli	1204	74.5	2.8	541	2	US-09-311-311C-25	Sequence 25, Appl
1132	75	2.9	481	1	US-08-215-089-9	Sequence 9, Appli	1205	74.5	2.8	554	2	US-09-902-540-15061	Sequence 15061, A
1133	75	2.9	481	4	US-08-431-517F-11	Sequence 11, Appl	1206	74.5	2.8	565	2	US-09-248-796A-15341	Sequence 15341, A
1134	75	2.9	481	4	PCT-US95-03384-9	Sequence 9, Appli	1207	74.5	2.8	591	2	US-09-248-796A-18374	Sequence 18374, A
1135	75	2.9	498	2	US-09-232-468A-18	Sequence 18, Appl	1208	74.5	2.8	601	2	US-09-270-767-42194	Sequence 42194, A
1136	75	2.9	498	2	US-09-784-984B-52	Sequence 52, Appl	1209	74.5	2.8	607	2	US-09-198-452A-374	Sequence 374, App
1137	75	2.9	501	2	US-09-934-901-20	Sequence 20, Appl	1210	74.5	2.8	608	2	US-09-438-185A-361	Sequence 361, App
1138	75	2.9	501	2	US-09-934-868-10	Sequence 10, Appl	1211	74.5	2.8	623	2	US-09-902-540-10027	Sequence 10027, A
1139	75	2.9	501	2	US-10-321-210-20	Sequence 20, Appl	1212	74.5	2.8	625	2	US-08-581-148C-18	Sequence 18, Appl
1140	75	2.9	501	2	US-10-320-874-20	Sequence 20, Appl	1213	74.5	2.8	630	2	US-08-973-462-9	Sequence 9, Appli
1141	75	2.9	501	2	US-10-320-924-20	Sequence 20, Appl	1214	74.5	2.8	637	2	US-09-360-545-6	Sequence 6, Appli
1142	75	2.9	501	2	US-10-701-200-10	Sequence 10, Appl	1215	74.5	2.8	637	2	US-09-398-395A-58	Sequence 58, Appl
1143	75	2.9	502	2	US-09-328-352-5891	Sequence 5891, Ap	1216	74.5	2.8	637	2	US-09-887-586A-58	Sequence 58, Appl
1144	75	2.9	557	2	US-09-538-092-242	Sequence 242, App	1217	74.5	2.8	637	2	US-09-895-752-58	Sequence 58, Appl
1145	75	2.9	558	2	US-09-540-236-2943	Sequence 2943, Ap	1218	74.5	2.8	637	2	US-09-903-012B-58	Sequence 58, Appl
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1147	75	2.9	566	2	US-09-949-002-452	Sequence 452, App	1220	74.5	2.8	637	2	US-09-893-820-58	Sequence 58, Appl
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1149	75	2.9	603	2	US-09-396-149-8	Sequence 8, Appli	1222	74.5	2.8	698	2	US-09-107-538A-5685	Sequence 5685, Ap
1150	75	2.9	639	2	US-09-248-796A-20583	Sequence 20583, A	1223	74.5	2.8	722	2	US-09-433-043B-125	Sequence 125, App
1151	75	2.9	714	2	US-09-492-709A-253	Sequence 253, App	1224	74.5	2.8	781	2	US-10-040-802-10	Sequence 10, Appl
1152	75	2.9	745	2	US-09-902-540-10275	Sequence 10275, A	1225	74.5	2.8	824	2	US-09-252-991A-32329	Sequence 32329, A
1153	75	2.9	820	2	US-09-583-110-4219	Sequence 4219, Ap	1226	74.5	2.8	833	2	US-10-190-967-2	Sequence 2, Appli
1154	75	2.9	822	2	US-09-824-734-3	Sequence 3, Appli	1227	74.5	2.8	905	2	US-09-134-001C-3782	Sequence 3782, Ap
1155	75	2.9	834	2	US-09-107-433-4760	Sequence 4760, Ap	1228	74.5	2.8	943	2	US-09-902-540-10641	Sequence 10641, A
1156	75	2.9	836	2	US-09-252-991A-23513	Sequence 23513, A	1229	74.5	2.8	968	2	US-09-228-986-76	Sequence 76, Appl
1157	75	2.9	848	2	US-09-902-540-14707	Sequence 14707, A	1230	74.5	2.8	968	1	US-10-101-464A-76	Sequence 76, Appl
1158	75	2.9	853	1	US-08-468-558-3	Sequence 3, Appli	1231	74.5	2.8	989	1	US-08-070-301-14	Sequence 14, Appl
1159	75	2.9	853	2	US-09-354-129-10	Sequence 10, Appl	1232	74.5	2.8	990	2	US-09-540-236-3360	Sequence 3360, Ap
1160	75	2.9	853	2	US-08-676-444-3	Sequence 3, Appli	1233	74.5	2.8	1037	2	US-09-134-001C-4794	Sequence 4794, Ap
1161	75	2.9	853	2	US-09-504-357-10	Sequence 10, Appl	1234	74.5	2.8	1131	2	US-09-487-558B-72	Sequence 72, Appl
1162	75	2.9	878	2	US-09-489-039A-13174	Sequence 13174, A	1235	74.5	2.8	1196	2	US-10-104-047-2933	Sequence 2933, Ap
1163	75	2.9	882	2	US-09-252-991A-24619	Sequence 24619, A	1236	74.5	2.8	1363	2	US-09-252-991A-21342	Sequence 21342, A
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1165	75	2.9	942	1	US-08-141-324-14	Sequence 14, Appl	1238	74.5	2.8	1809	2	US-09-012-515A-12	Sequence 12, Appl
1166	75	2.9	942	1	US-08-541-902-14	Sequence 14, Appl	1239	74.5	2.8	1809	2	US-08-360-144A-12	Sequence 12, Appl
1167	75	2.9	944	2	US-09-949-016-6650	Sequence 6650, Ap	1240	74.5	2.8	1809	2	US-09-012-504A-12	Sequence 12, Appl
1168	75	2.9	987	2	US-09-540-236-3017	Sequence 3017, Ap	1241	74.5	2.8	1809	2	US-09-012-399A-12	Sequence 12, Appl
1169	75	2.9	988	2	US-09-252-991A-29699	Sequence 29699, A	1242	74.5	2.8	1822	2	US-09-949-016-7999	Sequence 7999, Ap
1170	75	2.9	1044	2	US-09-893-371A-1	Sequence 1, Appli	1243	74.5	2.8	2172	1	US-08-611-107-31	Sequence 31, Appl
1171	75	2.9	1112	1	US-08-714-402-2	Sequence 2, Appli	1244	74.5	2.8	2549	2	US-08-471-112A-3	Sequence 3, Appli
1172	75	2.9	1160	2	US-09-328-352-6457	Sequence 6457, Ap	1245	74.5	2.8	2549	2	US-09-950-634-3	Sequence 3, Appli
1173	75	2.9	1211	2	US-09-491-522-5	Sequence 5, Appli	1246	74.5	2.8	2549	2	US-09-538-092-1112	Sequence 1112, Ap
1174	75	2.9	1211	2	US-09-949-016-11401	Sequence 11401, A	1247	74.5	2.8	2549	4	PCT-US95-06722-12	Sequence 12, Appl
1175	75	2.9	1211	2	US-09-949-002-555	Sequence 555, App	1248	74.5	2.8	4866	2	US-09-424-783-2	Sequence 2, Appli
1176	75	2.9	1711	2	US-08-369-828C-10	Sequence 10, Appl	1249	74	2.8	173	2	US-09-853-832-16	Sequence 16, Appl
1177	75	2.9	1711	2	US-08-582-776C-10	Sequence 10, Appl	1250	74	2.8	173	2	US-10-300-818-16	Sequence 16, Appl
1178	75	2.9	1711	2	US-08-434-831B-10	Sequence 10, Appl	1251	74	2.8	181	2	US-09-710-279-86	Sequence 86, Appl
1179	75	2.9	3072	2	US-09-413-814-93	Sequence 93, Appl	1252	74	2.8	182	2	US-09-134-001C-3742	Sequence 3742, Ap
1180	74.5	2.8	177	2	US-09-489-039A-10826	Sequence 10826, A	1253	74	2.8	201	2	US-09-710-279-1514	Sequence 1514, Ap
1181	74.5	2.8	236	1	US-08-307-499-28	Sequence 28, Appl	1254	74	2.8	206	2	US-08-705-245-13	Sequence 13, Appl
1182	74.5	2.8	236	2	US-09-299-268-28	Sequence 28, Appl	1255	74	2.8	206	2	US-09-490-714-13	Sequence 13, Appl
1183	74.5	2.8	243	2	US-09-252-991A-32483	Sequence 32483, A	1256	74	2.8	243	2	US-09-902-540-15036	Sequence 15036, A
1184	74.5	2.8	300	2	US-09-605-703B-730	Sequence 730, App	1257	74	2.8	246	2	US-09-902-540-15999	Sequence 15999, A
1185	74.5	2.8	300	2	US-09-605-703B-732	Sequence 732, App	1258	74	2.8	295	2	US-09-461-325-193	Sequence 193, App
1186	74.5	2.8	326	2	US-09-902-540-15158	Sequence 15158, A	1259	74	2.8	295	2	US-10-012-542-193	Sequence 193, App
1187	74.5	2.8	336	2	US-09-252-991A-23121	Sequence 23121, A	1260	74	2.8	295	2	US-10-115-123-193	Sequence 193, App
1188	74.5	2.8	396	2	US-09-252-991A-23803	Sequence 23803, A	1261	74	2.8	325	2	US-09-194-905-11	Sequence 11, Appl
1189	74.5	2.8	403	1	US-07-672-304-6	Sequence 6, Appli	1262	74	2.8	325	2	US-09-922-683-11	Sequence 11, Appl
1190	74.5	2.8	403	2	US-08-776-246-4	Sequence 4, Appli	1263	74	2.8	328	2	US-09-583-110-4551	Sequence 4551, Ap
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1192	74.5	2.8	439	2	US-09-134-001C-4903	Sequence 4903, Ap	1265	74	2.8	358	2	US-09-328-352-7641	Sequence 7641, Ap
1193	74.5	2.8	448	2	US-09-489-039A-8657	Sequence 8657, Ap	1266	74	2.8	361	2	US-09-543-681A-7025	Sequence 7025, Ap
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1195	74.5	2.8	473	2	US-09-134-001C-4773	Sequence 4773, Ap	1268	74	2.8	394	2	US-08-252-991A-19674	Sequence 19674, A

1269	74	2.8	395	2	US-09-134-001C-3723	Sequence 3723, Ap	1342	74	2.8	1804	2	US-09-362-336A-4	Sequence 4, Appli
1270	74	2.8	418	2	US-09-328-352-4525	Sequence 4525, Ap	1343	74	2.8	1958	2	US-10-152-886-53	Sequence 53, Appli
1271	74	2.8	420	2	US-09-758-759-121	Sequence 121, App	1344	74	2.8	2470	2	US-08-265-967C-2	Sequence 2, Appli
1272	74	2.8	428	2	US-09-949-016-9739	Sequence 9739, Ap	1345	74	2.8	2470	2	US-08-305-790B-3	Sequence 3, Appli
1273	74	2.8	429	2	US-09-830-230A-22	Sequence 22, Appli	1346	74	2.8	3290	2	US-09-328-352-5486	Sequence 5486, Ap
1274	74	2.8	430	2	US-09-792-420-2	Sequence 2, Appli	1347	73.5	2.8	133	1	US-07-846-992-3	Sequence 3, Appli
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1282	74	2.8	444	2	US-09-696-364-8	Sequence 8, Appli	1355	73.5	2.8	341	2	US-09-401-636-3	Sequence 2, Appli
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1285	74	2.8	449	2	US-09-270-767-57465	Sequence 57465, A	1358	73.5	2.8	372	2	US-08-998-416-4	Sequence 7, Appli
1286	74	2.8	455	2	US-09-134-000C-6074	Sequence 6074, Ap	1359	73.5	2.8	375	2	US-09-171-337A-7	Sequence 7, Appli
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1293	74	2.8	498	2	US-09-784-984B-54	Sequence 54, Appl	1366	73.5	2.8	412	2	US-09-423-439-10	Sequence 10, Appl
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1295	74	2.8	511	2	US-10-104-047-2339	Sequence 2339, Ap	1368	73.5	2.8	437	2	US-09-248-796A-18684	Sequence 18684, A
1296	74	2.8	533	2	US-09-605-703B-1480	Sequence 1480, Ap	1369	73.5	2.8	441	2	US-09-107-532A-5054	Sequence 5054, Ap
1297	74	2.8	541	2	US-09-328-352-7237	Sequence 7237, Ap	1370	73.5	2.8	442	2	US-09-489-039A-10439	Sequence 10439, A
1298	74	2.8	546	2	US-09-489-039A-9631	Sequence 9631, Ap	1371	73.5	2.8	446	2	US-09-902-540-12791	Sequence 12791, A
1299	74	2.8	566	2	US-09-491-522-7	Sequence 7, Appli	1372	73.5	2.8	451	2	US-09-417-251A-18	Sequence 18, Appl
1300	74	2.8	566	2	US-09-949-016-7010	Sequence 7010, Ap	1373	73.5	2.8	451	2	US-09-036-987A-17	Sequence 17, Appl
1301	74	2.8	568	2	US-09-218-702-4	Sequence 4, Appli	1374	73.5	2.8	455	2	US-09-370-700-17	Sequence 17, Appl
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1303	74	2.8	608	2	US-09-949-016-8981	Sequence 8981, Ap	1376	73.5	2.8	473	2	US-09-701-896-6	Sequence 6, Appli
1304	74	2.8	608	2	US-09-949-016-11561	Sequence 11561, A	1377	73.5	2.8	493	2	US-09-949-016-5911	Sequence 5911, Ap
1305	74	2.8	612	2	US-09-248-796A-18533	Sequence 18533, A	1378	73.5	2.8	509	2	US-09-252-991A-28680	Sequence 28680, A
1306	74	2.8	615	1	US-08-663-566A-17	Sequence 17, Appl	1379	73.5	2.8	515	2	US-08-369-822C-23	Sequence 23, Appl
1307	74	2.8	615	1	US-08-023-610-17	Sequence 17, Appl	1380	73.5	2.8	515	2	US-08-582-776C-38	Sequence 38, Appl
1308	74	2.8	615	1	US-08-288-065A-17	Sequence 17, Appl	1381	73.5	2.8	515	2	US-08-582-776C-38	Sequence 35, Appl
1309	74	2.8	615	4	PCT-US95-10245-17	Sequence 17, Appl	1382	73.5	2.8	530	2	US-08-434-831B-35	Sequence 35, Appl
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1312	74	2.8	635	2	US-09-341-833A-9	Sequence 9, Appli	1385	73.5	2.8	564	2	US-08-776-059-35	Sequence 35, Appl
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1314	74	2.8	639	2	US-09-328-352-7786	Sequence 7786, Ap	1387	73.5	2.8	571	2	US-09-248-796A-19310	Sequence 19310, A
1315	74	2.8	651	2	US-09-248-796A-18051	Sequence 18051, A	1388	73.5	2.8	571	2	US-08-348-920-2	Sequence 2, Appli
1316	74	2.8	652	2	US-09-605-703B-2588	Sequence 2588, Ap	1389	73.5	2.8	575	1	US-09-248-796A-14784	Sequence 14784, A
1317	74	2.8	668	2	US-09-252-991A-26712	Sequence 26712, A	1390	73.5	2.8	578	2	US-09-107-532A-5678	Sequence 5678, Ap
1318	74	2.8	668	2	US-09-538-092-599	Sequence 599, App	1391	73.5	2.8	583	2	US-09-710-279-2124	Sequence 2124, Ap
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1322	74	2.8	876	1	US-08-717-515-6	Sequence 4, Appli	1395	73.5	2.8	637	2	US-10-041-007-28	Sequence 28, Appl
1323	74	2.8	911	2	US-08-461-562B-2	Sequence 2, Appli	1396	73.5	2.8	642	2	US-09-423-439-26	Sequence 26, Appl
1324	74	2.8	924	2	US-09-489-039A-8842	Sequence 8842, Ap	1397	73.5	2.8	643	2	US-09-423-439-16	Sequence 16, Appl
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1326	74	2.8	1084	1	US-10-101-464A-956	Sequence 956, App	1399	73.5	2.8	664	2	US-09-248-796A-17191	Sequence 17191, A
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1329	74	2.8	1092	2	US-09-252-991A-28476	Sequence 28476, A	1402	73.5	2.8	689	1	US-07-766-351-5	Sequence 5, Appli
1330	74	2.8	1098	2	US-10-104-047-2475	Sequence 2475, Ap	1403	73.5	2.8	689	1	US-08-059-032-5	Sequence 5, Appli
1331	74	2.8	1118	1	US-09-538-092-423	Sequence 423, App	1404	73.5	2.8	689	4	PCT-US91-07290-5	Sequence 5, Appli
1332	74	2.8	1170	2	US-08-476-062A-42	Sequence 42, Appl	1405	73.5	2.8	726	2	US-09-328-352-8115	Sequence 8115, Ap
1333	74	2.8	1211	4	PCT-US96-01314-42	Sequence 42, Appl	1406	73.5	2.8	742	1	US-07-921-807B-2	Sequence 2, Appli
1334	74	2.8	1211	4	US-09-949-002-401	Sequence 401, App	1407	73.5	2.8	742	1	US-08-441-944A-2	Sequence 70, Appl
1335	74	2.8	1227	2	US-09-688-188B-105	Sequence 105, App	1408	73.5	2.8	765	2	US-08-444-818-70	Sequence 8047, Ap
1336	74	2.8	1227	2	US-09-291-417B-105	Sequence 105, App	1409	73.5	2.8	772	2	US-09-543-681A-8047	Sequence 120, App
1337	74	2.8	1247	2	US-09-134-000C-4368	Sequence 4368, Ap	1410	73.5	2.8	797	2	US-09-191-468-120	Sequence 8, Appli
1338	74	2.8	1276	1	US-08-717-515-8	Sequence 8, Appli	1411	73.5	2.8	874	1	US-08-247-904B-8	Sequence 21, Appl
1339	74	2.8	1407	2	US-09-328-352-7885	Sequence 7885, Ap	1412	73.5	2.8	874	1	US-08-767-942A-21	Sequence 2, Appli
1340	74	2.8	1747	2	US-09-302-540-14765	Sequence 14765, A	1413	73.5	2.8	877	1	US-08-673-789-2	Sequence 2, Appli
1341	74	2.8	1763	2	US-09-362-336A-2	Sequence 2, Appli	1414	73.5	2.8				

1415	73.5	2.8	887	1	US-08-215-709-1	Sequence 1, Appli	Sequence 1, Appli
1416	73.5	2.8	892	2	US-09-489-039A-12282	Sequence 12282, A	Sequence 3, Appli
1417	73.5	2.8	921	2	US-09-206-800-9	Sequence 9, Appli	Sequence 3, Appli
1418	73.5	2.8	936	2	US-09-248-796A-14843	Sequence 14843, A	Sequence 31673, A
1419	73.5	2.8	947	2	US-09-252-991A-21335	Sequence 21335, A	Sequence 5, Appli
1420	73.5	2.8	953	2	US-09-751-389-7	Sequence 7, Appli	Sequence 9902, Ap
1421	73.5	2.8	967	1	US-08-449-645A-30	Sequence 30, Appli	Sequence 4, Appli
1422	73.5	2.8	967	1	US-08-702-367A-30	Sequence 30, Appli	Sequence 4, Appli
1423	73.5	2.8	975	2	US-09-751-389-8	Sequence 8, Appli	Sequence 4, Appli
1424	73.5	2.8	991	1	US-08-449-645A-13	Sequence 13, Appli	Sequence 6016, Ap
1425	73.5	2.8	991	1	US-08-702-367A-13	Sequence 13, Appli	Sequence 26336, A
1426	73.5	2.8	991	4	PCP-US95-04681-13	Sequence 13, Appli	Sequence 12568, A
1427	73.5	2.8	998	2	US-09-198-452A-841	Sequence 841, App	Sequence 4010, Ap
1428	73.5	2.8	998	2	US-09-438-185A-793	Sequence 793, App	
1429	73.5	2.8	1026	2	US-10-104-047-2509	Sequence 2, Appli	
1430	73.5	2.8	1140	2	US-09-220-081-2	Sequence 2, Appli	
1431	73.5	2.8	1140	2	US-09-677-575-2	Sequence 2, Appli	
1432	73.5	2.8	1140	2	US-10-045-072-2	Sequence 2, Appli	
1433	73.5	2.8	1164	2	US-08-589-756-1	Sequence 1, Appli	
1434	73.5	2.8	1164	2	US-09-206-800-1	Sequence 1, Appli	
1435	73.5	2.8	1164	2	US-09-206-898-1	Sequence 1, Appli	
1436	73.5	2.8	1164	2	US-09-870-122A-1	Sequence 1, Appli	
1437	73.5	2.8	1302	2	US-09-902-540-14853	Sequence 14853, A	
1438	73.5	2.8	1884	2	US-09-538-092-1329	Sequence 1329, Ap	
1439	73.5	2.8	2089	1	US-08-418-893D-23	Sequence 23, Appli	
1440	73.5	2.8	2089	1	US-08-418-893D-24	Sequence 24, Appli	
1441	73.5	2.8	2214	2	US-09-902-540-15988	Sequence 15988, A	
1442	73.5	2.8	2629	1	US-08-751-189-4	Sequence 4, Appli	
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1444	73.5	2.8	2629	2	US-09-184-445-4	Sequence 4, Appli	
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Sequence 26336, A

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US-09-583-110-4010

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[illegible]

RESULT 5

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US-09-438-185A-981
; Sequence 981, Application US/09438185A
; Patent No. 6822071
; GENERAL INFORMATION:
; APPLICANT: Stephens, Richard
; APPLICANT: Mitchell, Wayne
; APPLICANT: Kalman, Sue
; APPLICANT: Davis, Ronald
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Chlamydia Pneumoniae G
; FILE REFERENCE: 018941-000411US
; CURRENT APPLICATION NUMBER: US/09/438,185A
; CURRENT FILING DATE: 2002-03-13
; PRIORITY APPLICATION NUMBER: US 60/108,279
; PRIOR FILING DATE: 1998-11-12
; PRIORITY APPLICATION NUMBER: US 60/128,606
; PRIOR FILING DATE: 1999-04-08
; NUMBER OF SEQ ID NOS: 1074
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 981
; LENGTH: 495
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
; FEATURE:
; OTHER INFORMATION: Cpn0980
US-09-438-185A-981

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Qy	198	MEBAGSVALBELVPEKEDRFPFGVDYIVISONLMI SQRKPAITYTGRGNSVPMVEVKCRD	257
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Qy	375	IRLVPHMNVSAVEKQVTRHLED-----VFESK-----RNSSNKVMVSMTLGLHPW	418
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; Sequence 4829, Application US/09583110
; Patent No. 6699703
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; GENERAL INFORMATION:
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; APPLICANT: Lynn Doucette-Stamm et al.
;
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences of Streptococcus pneumoniae
;
; TITLE OF INVENTION: Pneumoniae for Diagnosis and Treatment
;
; FILE REFERENCE: PATH00-07A
;
; CURRENT APPLICATION NUMBER: US/09/583,110
;
; CURRENT FILING DATE: 2000-05-26
;
; PRIOR APPLICATION NUMBER: US 09/107,433
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; PRIOR FILING DATE: 1998-06-30
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; PRIOR APPLICATION NUMBER: US 60/085,131
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; PRIOR FILING DATE: 1998-05-12
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; PRIOR APPLICATION NUMBER: US 60/051,553
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; PRIOR FILING DATE: 1997-07-02
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; US-09-583-110-4829

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RESULT 12
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; Sequence 5701, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 5701
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; LOCATION: 74
; OTHER INFORMATION: Xaa= * or Glu or Lys or Gln
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; NAME/KEY: UNSURE
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; OTHER INFORMATION: Xaa=His or Ile or Leu or Asn
US-09-513-999C-5701

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RESULT 13
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; Sequence 5702, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
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RESULT 14
US-09-602-777A-192
; Sequence 192, Application US/09602777A
; Patent No. 6831165
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kroger, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Habershauer, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS
; TITLE OF INVENTION: INVOLVED IN HOMEOSTASIS AND ADAPTATION
; FILE REFERENCE: BGI-128CP
; CURRENT APPLICATION NUMBER: US/09/602,777A
; CURRENT FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: US 60/141031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: DE 19931636.8
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; PRIOR APPLICATION NUMBER: DE 19932125.6
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932126.4
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932127.2
; PRIOR FILING DATE: 1999-07-09
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; PRIOR FILING DATE: 1999-07-09
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; PRIOR APPLICATION NUMBER: DE 19932935.4
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19932973.7
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; PRIOR FILING DATE: 1999-07-14
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- and is derived by analysis of the total score distribution.

SUMMARIES

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173	111.5	4.3	2061	4	US-10-087-192-486	Sequence 486, App	246	100	3.8	1769	5	US-10-719-993-831	Sequence 247969, A
174	111.5	4.3	2061	4	US-10-060-036-181	Sequence 181, App	247	99.5	3.8	100	4	US-10-425-115-247969	Sequence 18655, A
175	111	4.2	1231	4	US-10-369-493-3503	Sequence 3503, Ap	248	99.5	3.8	437	5	US-10-732-923-18655	Sequence 21645, A
176	110.5	4.2	401	6	US-11-097-143-13974	Sequence 13974, A	249	99.5	3.8	653	4	US-10-369-493-21645	Sequence 45311, A
177	110.5	4.2	439	4	US-10-425-115-267724	Sequence 267724, A	250	99.5	3.8	807	5	US-10-450-763-45311	Sequence 40, Appl
178	110.5	4.2	1478	4	US-10-240-154-10	Sequence 10, Appl	251	99	3.8	1031	4	US-10-410-681-40	Sequence 167, App
179	110	4.2	409	4	US-10-674-666-7	Sequence 7, Appl	252	99	3.8	1275	4	US-10-452-024-167	Sequence 167, App
180	110	4.2	409	4	US-10-674-666-8	Sequence 8, Appl	253	99	3.8	1276	4	US-10-354-774-66	Sequence 66, Appl
181	110	4.2	409	4	US-10-674-666-9	Sequence 9, Appl	254	99	3.8	1276	4	US-10-271-012-66	Sequence 66, Appl
182	110	4.2	409	4	US-10-674-666-10	Sequence 10, Appl	255	99	3.8	1276	4	US-10-452-024-4	Sequence 4, Appl
183	110	4.2	441	4	US-10-437-963-143921	Sequence 143921, A	256	99	3.8	1276	4	US-10-452-024-164	Sequence 164, App
184	110	4.2	650	4	US-10-282-122A-76703	Sequence 76703, A	257	99	3.8	1276	4	US-10-452-024-168	Sequence 168, App

258	99	3.8	1276	4	US-10-205-516-8	Sequence 8, Appli	331	95	3.6	409	5	US-10-645-723-3	Sequence 3, Appli
259	99	3.8	1276	4	US-10-729-122-66	Sequence 66, Appl	332	95	3.6	409	5	US-10-645-723-4	Sequence 4, Appli
260	99	3.8	1276	4	US-10-729-039-66	Sequence 66, Appl	333	95	3.6	409	5	US-10-757-843-3	Sequence 3, Appli
261	99	3.8	1276	5	US-10-729-527-66	Sequence 66, Appl	334	95	3.6	608	4	US-10-381-530-13	Sequence 13, Appl
262	99	3.8	1276	5	US-10-727-898-66	Sequence 66, Appl	335	95	3.6	628	4	US-10-424-599-249418	Sequence 249418,
263	99	3.8	1276	5	US-10-728-696-66	Sequence 66, Appl	336	95	3.6	867	4	US-10-282-122A-60200	Sequence 60200, A
264	99	3.8	1276	6	US-11-001-241-66	Sequence 66, Appl	337	95	3.6	876	4	US-10-282-122A-70369	Sequence 70369, A
265	99	3.8	1276	4	US-10-205-516-22	Sequence 22, Appl	338	95	3.6	876	5	US-10-857-625-697	Sequence 697, App
266	99	3.8	1704	4	US-10-369-978-2	Sequence 2, Appli	339	95	3.6	1376	4	US-10-238-075-560	Sequence 560, App
267	98.5	3.8	573	5	US-10-501-282-5274	Sequence 5274, Ap	340	95	3.6	1416	4	US-10-282-122A-76450	Sequence 76450, A
268	98.5	3.8	580	5	US-10-501-282-5276	Sequence 5276, Ap	341	95	3.6	2110	5	US-10-732-923-20533	Sequence 20533, A
269	98.5	3.8	603	5	US-10-501-282-5278	Sequence 5278, Ap	342	94.5	3.6	172	4	US-10-724-972A-5607	Sequence 5607, Ap
270	98.5	3.8	609	5	US-10-501-282-5280	Sequence 5280, Ap	343	94.5	3.6	348	4	US-10-425-115-267723	Sequence 267723,
271	98.5	3.8	697	4	US-10-425-115-255466	Sequence 255466,	344	94.5	3.6	371	4	US-10-335-977-6819	Sequence 6819, Ap
272	98.5	3.8	829	4	US-10-369-493-4177	Sequence 1077, A	345	94.5	3.6	402	3	US-09-815-242-11599	Sequence 11599, A
273	98	3.7	1037	4	US-10-437-963-150522	Sequence 150522,	346	94.5	3.6	474	4	US-10-335-977-6820	Sequence 6820, Ap
274	98	3.7	407	4	US-10-437-963-150522	Sequence 150522,	347	94.5	3.6	590	5	US-10-424-599-254116	Sequence 254116,
275	97.5	3.7	402	4	US-10-282-122A-58973	Sequence 58973, A	348	94.5	3.6	662	4	US-10-934-998-98	Sequence 98, Appl
276	97.5	3.7	499	4	US-10-159-257A-189	Sequence 189, App	349	94.5	3.6	787	3	US-10-369-493-2747	Sequence 2747, A
277	97.5	3.7	560	4	US-10-415-302-6	Sequence 6, Appli	350	94.5	3.6	787	3	US-09-712-363-178	Sequence 178, App
278	97.5	3.7	581	4	US-10-282-122A-55993	Sequence 55993, A	351	94.5	3.6	787	4	US-10-282-122A-64434	Sequence 64434, A
279	97.5	3.7	674	4	US-10-352-843-11	Sequence 11, Appl	352	94.5	3.6	983	6	US-11-097-143-37182	Sequence 37182, A
280	97	3.7	371	4	US-10-408-765A-1330	Sequence 1330, Ap	353	94.5	3.6	1169	4	US-10-282-122A-71049	Sequence 71049, A
281	97	3.7	730	4	US-10-437-963-164068	Sequence 164068,	354	94.5	3.6	1253	4	US-10-282-122A-52275	Sequence 52275, A
282	97	3.7	773	5	US-10-732-923-23195	Sequence 23195, A	355	94.5	3.6	1346	4	US-10-437-963-157483	Sequence 157483,
283	97	3.7	4746	4	US-10-369-493-433	Sequence 433, App	356	94	3.6	639	4	US-10-032-585-7531	Sequence 7531, Ap
284	96.5	3.7	421	4	US-10-282-122A-51099	Sequence 51099, A	357	94	3.6	817	5	US-10-282-122A-71072	Sequence 71072, A
285	96.5	3.7	560	4	US-10-415-302-2	Sequence 2, Appli	358	94	3.6	823	4	US-10-724-972A-6984	Sequence 6984, Ap
286	96.5	3.7	560	4	US-10-415-302-4	Sequence 4, Appli	359	94	3.6	901	4	US-10-282-122A-76591	Sequence 76591, A
287	96.5	3.7	560	4	US-10-415-302-16	Sequence 16, Appl	360	94	3.6	1028	5	US-10-732-923-13674	Sequence 13674, A
288	96.5	3.7	1622	4	US-10-080-170-154	Sequence 154, App	361	94	3.6	1053	5	US-10-732-923-13673	Sequence 13673, A
289	96.5	3.7	1622	4	US-10-282-122A-63833	Sequence 63833, A	362	94	3.6	1546	4	US-10-369-493-543	Sequence 543, App
290	96.5	3.7	1622	4	US-10-080-170-154	Sequence 154, App	363	94	3.6	535	4	US-10-724-972A-3956	Sequence 3956, Ap
291	96.5	3.7	1622	4	US-10-468-356-154	Sequence 154, App	364	93.5	3.6	595	4	US-10-413-943-27	Sequence 27, Appl
292	96.5	3.7	4551	3	US-09-793-708-1	Sequence 1, Appli	365	93.5	3.6	639	3	US-09-854-731-17	Sequence 17, Appl
293	96.5	3.7	4551	4	US-10-201-365-2	Sequence 2, Appli	366	93.5	3.6	640	4	US-10-425-115-340679	Sequence 340679,
294	96.5	3.7	4551	4	US-10-160-539-1	Sequence 1, Appli	367	93.5	3.6	655	5	US-10-828-924-80	Sequence 80, Appl
295	96.5	3.7	4551	5	US-10-468-828-1	Sequence 1, Appli	368	93.5	3.6	763	4	US-10-282-122A-61050	Sequence 61050, A
296	96.5	3.7	4551	5	US-10-846-335-1	Sequence 1, Appli	369	93.5	3.6	771	4	US-10-425-115-335778	Sequence 335778,
297	96.5	3.7	4613	3	US-09-861-289-31	Sequence 31, Appl	370	93.5	3.6	1459	4	US-10-188-186-100	Sequence 100, App
298	96.5	3.7	4613	3	US-09-860-846-31	Sequence 31, Appl	371	93.5	3.6	1487	4	US-10-282-122A-48361	Sequence 48361, A
299	96.5	3.7	4613	3	US-09-988-384B-31	Sequence 31, Appl	372	93.5	3.6	1613	4	US-10-282-122A-77288	Sequence 77288, A
300	96.5	3.7	4613	3	US-09-836-821-31	Sequence 31, Appl	373	93.5	3.6	1669	5	US-10-450-763-43673	Sequence 43673, A
301	96.5	3.7	4613	3	US-10-271-889-31	Sequence 31, Appl	374	93.5	3.6	1719	4	US-10-288-798-2	Sequence 2, Appli
302	96.5	3.7	11877	3	US-09-861-289-6	Sequence 6, Appli	375	93.5	3.6	1719	4	US-10-362-892-2	Sequence 2, Appli
303	96.5	3.7	11877	3	US-09-860-846-6	Sequence 6, Appli	376	93.5	3.6	1732	5	US-10-679-366-2	Sequence 2, Appli
304	96.5	3.7	11877	3	US-09-836-821-6	Sequence 6, Appli	377	93.5	3.6	1732	5	US-10-514-201-2	Sequence 2, Appli
305	96.5	3.7	11877	4	US-10-271-889-49	Sequence 49, Appl	378	93.5	3.6	1770	4	US-10-433-794-19	Sequence 19, Appl
306	96.5	3.7	12199	3	US-09-988-384B-6	Sequence 6, Appli	379	93.5	3.6	255	5	US-10-959-539-47	Sequence 47, Appl
307	96	3.7	485	4	US-10-369-493-17171	Sequence 17171, A	380	93	3.5	255	5	US-10-732-923-1544	Sequence 1544, Ap
308	96	3.7	584	5	US-10-450-763-35297	Sequence 35297, A	381	93	3.5	487	4	US-10-156-761-11764	Sequence 11764, A
309	96	3.7	584	5	US-10-450-763-43053	Sequence 43053, A	382	93	3.5	588	4	US-10-282-122A-67147	Sequence 67147, A
310	96	3.7	800	4	US-10-425-115-359162	Sequence 359162,	383	93	3.5	646	4	US-10-282-122A-53387	Sequence 53387, A
311	96	3.7	896	3	US-09-923-563A-1	Sequence 1, Appli	384	93	3.5	686	3	US-09-815-242-10843	Sequence 10843, A
312	96	3.7	1209	4	US-10-425-115-270046	Sequence 270046,	385	93	3.5	694	4	US-10-282-122A-56848	Sequence 56848, A
313	96	3.7	1448	5	US-10-032-585-7452	Sequence 7452, Ap	386	93	3.5	811	4	US-10-282-122A-48795	Sequence 48795, A
314	96	3.7	1699	5	US-10-842-313-8	Sequence 8, Appli	387	93	3.5	848	3	US-09-925-301-1161	Sequence 1161, Ap
315	96	3.7	1707	4	US-10-167-631A-2	Sequence 2, Appli	388	93	3.5	900	4	US-10-334-143-16	Sequence 16, Appl
316	96	3.7	1707	4	US-10-467-685-10	Sequence 10, Appl	389	93	3.5	1053	4	US-10-310-671-12	Sequence 12, Appl
317	96	3.7	1709	5	US-10-842-313-2	Sequence 2, Appli	390	93	3.5	1544	4	US-11-059-218-10	Sequence 10, Appl
318	96	3.7	1711	5	US-10-842-313-10	Sequence 10, Appl	391	93	3.5	1544	4	US-10-405-793-7	Sequence 7, Appli
319	96	3.7	1721	5	US-10-842-313-4	Sequence 4, Appli	392	93	3.5	1544	4	US-10-210-152-9	Sequence 9, Appli
320	96	3.7	1721	5	US-10-842-313-6	Sequence 6, Appli	393	93	3.5	1556	5	US-10-405-793-9	Sequence 9, Appli
321	96	3.7	1734	5	US-10-842-313-12	Sequence 12, Appl	394	93	3.5	1554	4	US-10-842-313-19	Sequence 19, Appl
322	95.5	3.6	497	4	US-10-424-599-201339	Sequence 201339,	395	93	3.5	1554	4	US-10-210-152-2	Sequence 2, Appli
323	95.5	3.6	506	4	US-10-308-448-32	Sequence 32, Appl	396	93	3.5	1554	4	US-10-405-793-2	Sequence 2, Appli
324	95.5	3.6	508	4	US-10-369-493-8410	Sequence 8410, Ap	397	93	3.5	1556	5	US-10-842-313-15	Sequence 15, Appl
325	95	3.6	409	4	US-10-674-666-1	Sequence 1, Appli	398	93	3.5	1556	4	US-10-210-152-9	Sequence 9, Appli
326	95	3.6	409	4	US-10-674-666-2	Sequence 2, Appli	399	93	3.5	1556	5	US-10-405-793-9	Sequence 9, Appli
327	95	3.6	409	4	US-10-674-666-3	Sequence 3, Appli	400	93	3.5	1566	4	US-10-842-313-20	Sequence 20, Appl
328	95	3.6	409	4	US-10-674-666-4	Sequence 4, Appli	401	93	3.5	1566	4	US-10-210-152-4	Sequence 4, Appli
329	95	3.6	409	5	US-10-645-723-1	Sequence 1, Appli	402	93	3.5	1566	4	US-10-210-152-6	Sequence 6, Appli
330	95	3.6	409	5	US-10-645-723-2	Sequence 2, Appli	403	93	3.5	1566	4	US-10-405-793-4	Sequence 4, Appli

404	93	3.5	1566	4	US-10-405-793-6	Sequence 6, Appl	477	91	3.5	1274	3	US-09-746-491-12	Sequence 12, Appl
405	93	3.5	1566	5	US-10-842-313-17	Sequence 17, Appl	478	91	3.5	1286	5	US-10-450-763-55445	Sequence 55445, A
406	93	3.5	1566	5	US-10-842-313-18	Sequence 18, Appl	479	91	3.5	1286	5	US-10-450-763-55988	Sequence 55988, A
407	93	3.5	1579	4	US-10-210-152-10	Sequence 10, Appl	480	91	3.5	1286	5	US-10-450-763-56353	Sequence 56353, A
408	93	3.5	1579	4	US-10-405-793-10	Sequence 21, Appl	481	91	3.5	1701	3	US-09-963-959-2	Sequence 2, Appl
409	93	3.5	1579	5	US-10-842-313-21	Sequence 21, Appl	482	91	3.5	1701	3	US-10-193-452-62	Sequence 62, Appl
410	93	3.5	1617	4	US-10-282-122A-61673	Sequence 61673, A	483	91	3.5	1707	5	US-10-450-763-37759	Sequence 37759, A
411	93	3.5	2773	4	US-10-369-493-9876	Sequence 9876, Ap	484	90.5	3.5	224	4	US-10-282-122A-46449	Sequence 46449, A
412	92.5	3.5	2773	3	US-09-764-868-909	Sequence 909, App	485	90.5	3.5	361	4	US-10-437-963-132545	Sequence 132545, A
413	92.5	3.5	370	3	US-09-880-505-194	Sequence 194, App	486	90.5	3.5	431	4	US-10-425-114-36656	Sequence 36656, A
414	92.5	3.5	370	4	US-10-051-643-194	Sequence 194, App	487	90.5	3.5	434	4	US-10-425-114-46610	Sequence 46610, A
415	92.5	3.5	370	4	US-10-205-979-44	Sequence 44, Appl	488	90.5	3.5	444	4	US-10-156-761-10914	Sequence 10914, A
416	92.5	3.5	391	3	US-09-738-626-4788	Sequence 4788, Ap	489	90.5	3.5	479	4	US-10-425-114-64785	Sequence 64785, A
417	92.5	3.5	520	5	US-10-732-923-19522	Sequence 19522, A	490	90.5	3.5	500	3	US-09-815-242-13764	Sequence 13764, A
418	92.5	3.5	632	4	US-10-437-963-173585	Sequence 173585, A	491	90.5	3.5	500	4	US-10-282-122A-75641	Sequence 75641, A
419	92.5	3.5	632	5	US-10-481-032A-80	Sequence 80, Appl	492	90.5	3.5	500	4	US-10-437-963-152830	Sequence 152830, A
420	92.5	3.5	633	5	US-10-617-320-4091	Sequence 4091, Ap	493	90.5	3.5	641	4	US-10-389-566-682	Sequence 682, App
421	92.5	3.5	698	4	US-10-102-554-2	Sequence 2, Appl	494	90.5	3.5	882	4	US-10-437-963-180470	Sequence 180470, A
422	92.5	3.5	698	5	US-10-809-075-2	Sequence 2, Appl	495	90.5	3.5	895	4	US-10-425-115-301103	Sequence 301103, A
423	92.5	3.5	745	5	US-10-809-075-4	Sequence 4, Appl	496	90.5	3.5	895	4	US-09-870-122-2	Sequence 2, Appl
424	92.5	3.5	987	5	US-10-450-763-31953	Sequence 31953, A	497	90.5	3.5	1167	3	US-09-870-122-2	Sequence 2, Appl
425	92.5	3.5	1303	5	US-10-450-763-42589	Sequence 42589, A	498	90.5	3.5	1167	3	US-10-412-026-2	Sequence 2, Appl
426	92.5	3.5	1501	3	US-09-801-368-346	Sequence 346, App	499	90.5	3.5	1167	5	US-10-915-705-2	Sequence 2, Appl
427	92.5	3.5	1501	4	US-10-369-493-1606	Sequence 1606, Ap	500	90.5	3.5	1435	4	US-10-437-963-128458	Sequence 128458, A
428	92.5	3.5	2106	4	US-10-408-765A-2093	Sequence 2093, Ap	501	90.5	3.5	1435	5	US-10-732-923-8337	Sequence 8337, Ap
429	92	3.5	246	5	US-10-181-585B-109	Sequence 109, App	502	90.5	3.5	1513	4	US-10-282-122A-64858	Sequence 45, Appl
430	92	3.5	511	3	US-09-833-243-2010	Sequence 2010, Ap	503	90.5	3.5	1513	5	US-10-937-379-45	Sequence 45, Appl
431	92	3.5	588	3	US-09-815-242-11005	Sequence 11005, A	504	90	3.4	405	4	US-10-425-114-64873	Sequence 64873, A
432	92	3.5	588	4	US-10-282-122A-58135	Sequence 58135, A	505	90	3.4	405	4	US-10-305-765-2	Sequence 2, Appl
433	92	3.5	671	4	US-10-108-210-2	Sequence 2, Appl	506	90	3.4	495	4	US-10-305-765-4	Sequence 4, Appl
434	92	3.5	785	4	US-10-424-599-246482	Sequence 246482, A	507	90	3.4	495	4	US-10-305-633-2	Sequence 2, Appl
435	92	3.5	818	5	US-10-732-923-7010	Sequence 7010, Ap	508	90	3.4	495	4	US-10-305-633-4	Sequence 4, Appl
436	92	3.5	879	4	US-10-282-122A-71610	Sequence 71610, A	509	90	3.4	496	4	US-10-153-244-98	Sequence 98, Appl
437	92	3.5	1059	4	US-10-217-700-5	Sequence 5, Appl	510	90	3.4	621	4	US-10-282-122A-60850	Sequence 60850, A
438	92	3.5	1160	4	US-10-369-493-15779	Sequence 15779, A	511	90	3.4	672	4	US-10-369-493-9059	Sequence 7409, Ap
439	92	3.5	1160	4	US-10-369-493-16162	Sequence 16162, A	512	90	3.4	799	4	US-10-032-585-7409	Sequence 9960, Ap
440	92	3.5	1167	4	US-10-369-493-15411	Sequence 15411, A	513	90	3.4	818	4	US-10-156-761-9960	Sequence 9, Appl
441	92	3.5	1168	5	US-10-200-545-74	Sequence 74, Appl	514	90	3.4	1313	6	US-11-059-218-9	Sequence 11, Appl
442	91.5	3.5	310	4	US-10-288-930-122	Sequence 122, App	515	90	3.4	1799	4	US-10-467-163-11	Sequence 6, Appl
443	91.5	3.5	381	3	US-09-738-626-4850	Sequence 4850, Ap	516	90	3.4	1939	4	US-10-153-244-6	Sequence 4, Appl
444	91.5	3.5	411	4	US-10-032-585-7284	Sequence 7284, Ap	517	90	3.4	1970	4	US-10-153-244-8	Sequence 8, Appl
445	91.5	3.5	496	4	US-10-282-122A-55553	Sequence 55553, A	518	90	3.4	1974	4	US-10-153-244-8	Sequence 8, Appl
446	91.5	3.5	504	4	US-10-369-493-16452	Sequence 16452, A	519	90	3.4	2000	4	US-10-467-163-12	Sequence 12, Appl
447	91.5	3.5	514	4	US-10-369-493-9003	Sequence 9003, Ap	520	90	3.4	2017	4	US-10-153-244-2	Sequence 2, Appl
448	91.5	3.5	553	3	US-09-738-626-3655	Sequence 3655, Ap	521	90	3.4	2482	5	US-10-437-963-114732	Sequence 114732, A
449	91.5	3.5	553	5	US-10-494-672-280	Sequence 280, App	522	90	3.4	4725	5	US-10-450-763-54196	Sequence 54196, A
450	91.5	3.5	655	4	US-10-156-761-14498	Sequence 14498, A	523	90	3.4	4725	5	US-10-450-763-54196	Sequence 47416, A
451	91.5	3.5	679	4	US-10-097-111-285	Sequence 1442, Ap	524	90	3.4	4725	5	US-10-450-763-54196	Sequence 40200, A
452	91.5	3.5	839	4	US-09-925-300-1442	Sequence 1442, Ap	525	89.5	3.4	416	4	US-10-282-122A-50650	Sequence 50650, A
453	91.5	3.5	959	4	US-10-282-122A-77752	Sequence 77752, A	526	89.5	3.4	460	4	US-10-282-122A-76574	Sequence 76574, A
454	91.5	3.5	1654	5	US-10-741-600-1192	Sequence 1192, Ap	527	89.5	3.4	478	4	US-10-369-493-1246	Sequence 1246, Ap
455	91.5	3.5	1732	5	US-10-514-206-5	Sequence 5, Appl	528	89.5	3.4	478	4	US-10-369-493-20313	Sequence 20313, A
456	91.5	3.5	1732	5	US-10-514-201-3	Sequence 3, Appl	529	89.5	3.4	520	5	US-10-732-923-19521	Sequence 19521, A
457	91.5	3.5	2294	4	US-10-408-765A-713	Sequence 713, Appl	530	89.5	3.4	586	4	US-10-425-115-315239	Sequence 315239, A
458	91.5	3.5	3418	4	US-10-392-113-42	Sequence 42, Appl	531	89.5	3.4	673	4	US-10-437-963-177390	Sequence 177390, A
459	91.5	3.5	3418	4	US-10-634-574-1	Sequence 1, Appl	532	89.5	3.4	706	4	US-10-282-122A-46524	Sequence 46524, A
460	91.5	3.5	3418	4	US-10-408-765A-178	Sequence 178, App	533	89.5	3.4	715	4	US-10-282-122A-64170	Sequence 64170, A
461	91.5	3.5	3423	5	US-10-450-763-53776	Sequence 53776, A	534	89.5	3.4	715	5	US-10-732-923-6806	Sequence 6806, Ap
462	91.5	3.5	4820	6	US-11-097-143-2568	Sequence 2568, Ap	535	89.5	3.4	841	5	US-10-262-666-66	Sequence 66, Appl
463	91	3.5	246	5	US-10-181-585B-105	Sequence 105, App	536	89.5	3.4	841	5	US-10-755-415-198	Sequence 198, App
464	91	3.5	289	4	US-10-369-493-20150	Sequence 20150, A	537	89.5	3.4	982	4	US-10-282-122A-65306	Sequence 65306, A
465	91	3.5	315	4	US-10-282-122A-56045	Sequence 56045, A	538	89.5	3.4	982	4	US-10-032-585-7389	Sequence 7389, Ap
466	91	3.5	478	6	US-11-097-143-36240	Sequence 36240, A	539	89.5	3.4	1070	4	US-10-032-585-7389	Sequence 60643, A
467	91	3.5	505	4	US-10-282-122A-46304	Sequence 46304, A	540	89.5	3.4	1179	4	US-10-282-122A-60643	Sequence 23, Appl
468	91	3.5	687	5	US-10-739-930-5801	Sequence 6, Appl	541	89.5	3.4	1181	3	US-09-870-122-23	Sequence 23, Appl
469	91	3.5	737	6	US-11-059-218-6	Sequence 6, Appl	542	89.5	3.4	1181	3	US-09-870-122-23	Sequence 23, Appl
470	91	3.5	871	4	US-10-282-122A-51598	Sequence 51598, A	543	89.5	3.4	1181	4	US-10-412-026-23	Sequence 23, Appl
471	91	3.5	1038	5	US-10-450-763-3567	Sequence 35267, A	544	89.5	3.4	1439	4	US-10-282-122A-62761	Sequence 62761, A
472	91	3.5	1038	5	US-10-450-763-55412	Sequence 55412, A	545	89.5	3.4	1724	4	US-10-163-587A-17	Sequence 17, Appl
473	91	3.5	1054	4	US-10-104-047-2938	Sequence 2938, Ap	546	89	3.4	237	4	US-10-264-049-2885	Sequence 2885, Ap
474	91	3.5	1071	4	US-10-369-493-6459	Sequence 6459, Ap	547	89	3.4	409	4	US-10-282-122A-69334	Sequence 69334, A
475	91	3.5	1077	4	US-10-310-671-13	Sequence 13, Appl	548	89	3.4	453	5	US-10-501-282-1022	Sequence 1022, Ap
476	91	3.5	1098	4	US-10-408-765A-1953	Sequence 1953, Ap	549	89	3.4	467	5	US-10-501-282-1024	Sequence 1024, Ap

550	89	550	3.4	4	US-10-437-963-159192	Sequence 159192,	623	88	3.4	508	5	US-10-921-168-19	Sequence 19, Appl
551	89	702	3.4	4	US-10-282-122A-52565	Sequence 52565, A	624	88	3.4	563	5	US-10-788-197-23	Sequence 23, Appl
552	89	732	3.4	6	US-11-059-218-5	Sequence 5, Appl	625	88	3.4	563	5	US-10-754-473-23	Sequence 23, Appl
553	89	790	3.4	5	US-10-500-530-18	Sequence 18, Appl	626	88	3.4	575	4	US-10-425-115-243609	Sequence 243609,
554	89	851	3.4	4	US-10-425-115-257862	Sequence 257862,	627	88	3.4	589	4	US-10-424-599-245422	Sequence 245422,
555	89	914	3.4	4	US-10-282-122A-53745	Sequence 53745, A	628	88	3.4	616	4	US-10-104-047-2331	Sequence 2331, Ap
556	89	989	3.4	3	US-09-815-242-4897	Sequence 4897, Ap	629	88	3.4	641	4	US-10-437-963-146951	Sequence 146951,
557	89	1053	3.4	3	US-10-282-122A-53745	Sequence 196524, A	630	88	3.4	682	5	US-10-741-600-1267	Sequence 1267, Ap
558	89	1120	3.4	4	US-10-425-115-196524	Sequence 196524, A	631	88	3.4	682	5	US-10-741-600-1268	Sequence 1268, Ap
559	89	1312	3.4	6	US-11-059-218-8	Sequence 8, Appl	632	88	3.4	687	5	US-10-450-763-55514	Sequence 55514, A
560	89	1384	3.4	4	US-10-424-599-195608	Sequence 192608,	633	88	3.4	721	4	US-10-282-122A-60774	Sequence 60774, A
561	89	1725	3.4	4	US-10-467-434-11	Sequence 11, Appl	634	88	3.4	741	4	US-10-260-046-28	Sequence 28, Appl
562	88.5	245	3.4	5	US-10-181-585B-116	Sequence 116, Appl	635	88	3.4	779	4	US-10-408-765A-82	Sequence 82, Appl
563	88.5	250	3.4	4	US-10-437-963-127750	Sequence 127750,	636	88	3.4	780	5	US-10-719-993-717	Sequence 717, App
564	88.5	283	3.4	4	US-10-185-591-2	Sequence 2, Appl	637	88	3.4	780	5	US-10-719-993-720	Sequence 720, App
565	88.5	296	3.4	4	US-10-425-114-52269	Sequence 52269, A	638	88	3.4	780	5	US-10-719-993-721	Sequence 721, App
566	88.5	396	3.4	4	US-10-282-122A-60394	Sequence 60394, A	639	88	3.4	780	5	US-10-719-993-721	Sequence 721, App
567	88.5	439	3.4	4	US-10-425-114-69117	Sequence 69117, A	640	88	3.4	780	6	US-11-019-855-61	Sequence 61, Appl
568	88.5	470	3.4	4	US-10-425-115-327487	Sequence 327487, A	641	88	3.4	780	6	US-11-019-855-61	Sequence 61, Appl
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570	88.5	478	3.4	4	US-10-425-114-44927	Sequence 44927, A	643	88	3.4	1241	4	US-10-282-122A-51957	Sequence 51957, A
571	88.5	478	3.4	4	US-10-425-114-51948	Sequence 51948, A	644	88	3.4	1510	4	US-10-437-963-138376	Sequence 138376,
572	88.5	478	3.4	4	US-10-425-114-53490	Sequence 53490, A	645	88	3.4	2036	4	US-10-437-963-170373	Sequence 170373,
573	88.5	482	3.4	4	US-10-369-493-1068	Sequence 1068, Ap	646	87.5	3.3	160	5	US-10-857-625-607	Sequence 607, App
574	88.5	486	3.4	4	US-10-425-115-304125	Sequence 304125,	647	87.5	3.3	245	5	US-10-181-585B-112	Sequence 112, App
575	88.5	486	3.4	5	US-10-739-930-7351	Sequence 7351, Ap	648	87.5	3.3	246	4	US-10-282-122A-46293	Sequence 46293, A
576	88.5	488	3.4	4	US-10-425-114-65182	Sequence 65182, A	649	87.5	3.3	330	4	US-10-282-122A-72464	Sequence 72464, A
577	88.5	500	3.4	4	US-10-369-493-1510	Sequence 1510, Ap	650	87.5	3.3	362	4	US-10-032-585-7223	Sequence 7223, Ap
578	88.5	554	3.4	4	US-10-320-797-3270	Sequence 3270, Ap	651	87.5	3.3	425	4	US-10-041-018-172	Sequence 172, App
579	88.5	563	3.4	4	US-10-054-683-33	Sequence 33, Appl	652	87.5	3.3	425	4	US-10-041-018-172	Sequence 271, App
580	88.5	563	3.4	4	US-10-262-666-10	Sequence 10, Appl	653	87.5	3.3	491	5	US-10-994-726-66	Sequence 66, Appl
581	88.5	563	3.4	4	US-10-408-765A-2157	Sequence 2157, Ap	654	87.5	3.3	494	4	US-10-282-122A-43396	Sequence 43396, A
582	88.5	563	3.4	5	US-10-473-603-33	Sequence 33, Appl	655	87.5	3.3	522	4	US-10-425-115-247693	Sequence 247693,
583	88.5	563	3.4	5	US-10-511-362-2	Sequence 2, Appl	656	87.5	3.3	523	4	US-10-437-963-110870	Sequence 110870,
584	88.5	617	3.4	5	US-10-739-930-6169	Sequence 8, Appl	657	87.5	3.3	587	4	US-10-659-000-5	Sequence 5, Appl
585	88.5	623	3.4	3	US-09-815-242-13499	Sequence 54, Appl	658	87.5	3.3	587	4	US-10-659-000-6	Sequence 6, Appl
586	88.5	623	3.4	4	US-10-282-122A-74085	Sequence 74085, A	659	87.5	3.3	732	4	US-10-789-241-4	Sequence 4, Appl
587	88.5	673	3.4	4	US-10-425-115-310279	Sequence 310279,	660	87.5	3.3	732	4	US-11-059-218-4	Sequence 4, Appl
588	88.5	711	3.4	4	US-10-437-963-158926	Sequence 158926,	661	87.5	3.3	737	5	US-10-511-362-6	Sequence 6, Appl
589	88.5	735	3.4	5	US-10-511-362-8	Sequence 8, Appl	662	87.5	3.3	764	4	US-10-369-493-9693	Sequence 9693, Ap
590	88.5	744	3.4	4	US-10-262-666-64	Sequence 64, Appl	663	87.5	3.3	786	4	US-10-282-122A-57799	Sequence 57799, A
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592	88.5	900	3.4	5	US-10-732-923-7200	Sequence 7200, Ap	665	87.5	3.3	792	5	US-10-732-923-23182	Sequence 23182, A
593	88.5	1104	3.4	5	US-10-732-923-13965	Sequence 13965, A	666	87.5	3.3	935	5	US-10-732-923-19249	Sequence 19249, A
594	88.5	1164	3.4	5	US-10-915-705-1	Sequence 1, Appl	667	87.5	3.3	1016	4	US-10-188-186-104	Sequence 104, App
595	88.5	1266	3.4	4	US-10-282-122A-53903	Sequence 53903, A	668	87.5	3.3	1052	3	US-09-757-100B-2	Sequence 2, Appl
596	88.5	1554	3.4	4	US-10-437-963-189218	Sequence 189218,	669	87.5	3.3	1052	4	US-10-394-322A-25	Sequence 25, Appl
597	88.5	2039	3.4	5	US-10-437-963-155661	Sequence 155661,	670	87.5	3.3	1052	4	US-10-646-569-2	Sequence 2, Appl
598	88.5	2137	3.4	5	US-10-756-149-4806	Sequence 4806, Ap	671	87.5	3.3	1160	3	US-09-815-242-5480	Sequence 5480, Ap
599	88.5	4254	3.4	3	US-10-187-975-114	Sequence 114, Appl	672	87.5	3.3	1164	5	US-10-915-705-23	Sequence 23, Appl
600	88.5	4349	3.4	4	US-10-187-975-114	Sequence 114, Appl	673	87.5	3.3	1168	4	US-09-815-242-12151	Sequence 12151, A
601	88.5	4349	3.4	3	US-09-970-944-4	Sequence 4, Appl	674	87.5	3.3	1168	4	US-10-282-122A-44037	Sequence 44037, A
602	88.5	4349	3.4	3	US-09-970-944-4	Sequence 18, Appl	675	87.5	3.3	1181	5	US-10-474-792-674	Sequence 674, App
603	88.5	4349	3.4	3	US-09-970-944-19	Sequence 19, Appl	676	87.5	3.3	1234	4	US-10-282-122A-62676	Sequence 62676, A
604	88.5	4349	3.4	4	US-10-160-758-15	Sequence 15, Appl	677	87.5	3.3	1234	4	US-10-282-122A-64488	Sequence 64488, A
605	88.5	4349	3.4	4	US-10-174-677-76	Sequence 76, Appl	678	87.5	3.3	1265	3	US-09-964-899-19	Sequence 19, Appl
606	88.5	4349	3.4	4	US-10-187-975-112	Sequence 112, App	679	87.5	3.3	1265	5	US-10-975-523-19	Sequence 19, Appl
607	88.5	4349	3.4	4	US-10-408-765A-1739	Sequence 1739, Ap	680	87.5	3.3	1292	4	US-10-437-963-188422	Sequence 188422,
608	88	357	3.4	5	US-10-472-516-4	Sequence 4, Appl	681	87.5	3.3	1306	4	US-10-017-724-4	Sequence 4, Appl
609	88	357	3.4	5	US-10-600-862A-21	Sequence 21, Appl	682	87.5	3.3	1306	6	US-11-059-218-7	Sequence 7, Appl
610	88	357	3.4	5	US-10-868-577A-45	Sequence 45, Appl	683	87.5	3.3	1576	5	US-10-732-923-19033	Sequence 19033, A
611	88	357	3.4	5	US-10-868-577A-53	Sequence 53, Appl	684	87.5	3.3	1863	3	US-09-832-292-29	Sequence 29, Appl
612	88	357	3.4	5	US-10-812-849-21	Sequence 21, Appl	685	87.5	3.3	1863	3	US-09-930-512-38	Sequence 38, Appl
613	88	357	3.4	5	US-10-968-286-4	Sequence 4, Appl	686	87.5	3.3	1863	3	US-09-930-512-39	Sequence 39, Appl
614	88	357	3.4	5	US-10-631-467-613	Sequence 613, App	687	87.5	3.3	6815	6	US-11-097-143-27225	Sequence 27225, A
615	88	436	3.4	4	US-10-424-599-187961	Sequence 187961,	688	87.5	3.3	254	5	US-10-739-930-8348	Sequence 8348, Ap
616	88	436	3.4	4	US-10-425-114-40641	Sequence 40641, A	689	87	3.3	271	4	US-10-425-115-336452	Sequence 336452,
617	88	436	3.4	6	US-11-097-143-8664	Sequence 8664, Ap	690	87	3.3	399	4	US-10-369-493-21547	Sequence 21547, A
618	88	487	3.4	4	US-10-425-114-45681	Sequence 45681, A	691	87	3.3	399	5	US-10-732-923-18642	Sequence 18642, A
619	88	505	3.4	5	US-10-994-726-65	Sequence 65, Appl	692	87	3.3	459	4	US-10-425-115-23745	Sequence 23745, A
620	88	508	3.4	3	US-09-858-664A-18	Sequence 18, Appl	693	87	3.3	469	4	US-10-425-114-66740	Sequence 66740, A
621	88	508	3.4	4	US-10-274-978-19	Sequence 19, Appl	694	87	3.3	514	4	US-10-205-331-24	Sequence 24, Appl
622	88	508	3.4	4	US-10-697-263-19	Sequence 19, Appl	695	87	3.3				

696	87	3.3	545	5	US-10-450-763-31804	Sequence 31804, A	769	86	3.3	334	4	US-10-290-072-126	Sequence 126, App
697	87	3.3	558	4	US-10-425-115-236235	Sequence 236235,	770	86	3.3	393	4	US-10-369-493-22382	Sequence 22382, A
698	87	3.3	705	4	US-10-724-972A-7527	Sequence 7527, Ap	771	86	3.3	446	5	US-10-732-923-18650	Sequence 18650, A
699	87	3.3	738	4	US-10-369-493-16953	Sequence 16953, A	772	86	3.3	459	3	US-09-950-772-4	Sequence 4, Appli
700	87	3.3	754	4	US-10-425-114-64400	Sequence 64400, A	773	86	3.3	459	3	US-10-289-360-2	Sequence 2, Appli
701	87	3.3	759	4	US-10-425-115-250541	Sequence 250541,	774	86	3.3	459	5	US-10-863-245A-4	Sequence 4, Appli
702	87	3.3	876	3	US-09-815-243-12623	Sequence 12623, A	775	86	3.3	467	4	US-10-417-700A-37	Sequence 37, Appl
703	87	3.3	985	3	US-09-738-626-4377	Sequence 4377, Ap	776	86	3.3	468	4	US-10-369-493-17169	Sequence 17169, A
704	87	3.3	989	4	US-10-282-122A-42570	Sequence 42570, A	777	86	3.3	470	4	US-10-369-493-17350	Sequence 17350, A
705	87	3.3	1069	4	US-10-282-122A-71618	Sequence 71618, A	778	86	3.3	478	4	US-10-156-761-8525	Sequence 8525, Ap
706	87	3.3	1114	4	US-10-320-797-3340	Sequence 3340, Ap	779	86	3.3	480	4	US-10-425-114-47349	Sequence 47349, A
707	87	3.3	1224	4	US-10-369-493-22379	Sequence 22379, A	780	86	3.3	480	4	US-10-425-114-70221	Sequence 70221, A
708	87	3.3	1368	5	US-10-732-923-12330	Sequence 12330, A	781	86	3.3	520	4	US-10-369-493-6678	Sequence 6678, Ap
709	87	3.3	1443	3	US-09-815-242-5004	Sequence 5004, Ap	782	86	3.3	520	4	US-10-369-493-6679	Sequence 6679, Ap
710	87	3.3	1451	3	US-09-815-242-10734	Sequence 10734, A	783	86	3.3	527	4	US-10-437-963-156038	Sequence 156038,
711	87	3.3	1451	4	US-10-282-122A-42484	Sequence 42484, A	784	86	3.3	573	5	US-10-494-495-14	Sequence 14, Appl
712	87	3.3	1493	4	US-10-437-963-106983	Sequence 106983,	785	86	3.3	574	4	US-10-458-201-4	Sequence 4, Appli
713	87	3.3	1507	4	US-10-282-122A-51807	Sequence 51807, A	786	86	3.3	588	4	US-10-432-422-188	Sequence 188, App
714	87	3.3	1507	5	US-10-492-477-14	Sequence 14, Appl	787	86	3.3	618	3	US-09-934-901-18	Sequence 18, Appl
715	87	3.3	1575	4	US-10-437-963-171197	Sequence 171197,	788	86	3.3	618	3	US-09-934-868-8	Sequence 8, Appli
716	87	3.3	2438	5	US-10-745-237-172	Sequence 172, App	789	86	3.3	618	4	US-10-320-924-18	Sequence 18, Appl
717	87	3.3	2438	6	US-11-097-143-6702	Sequence 6702, Ap	790	86	3.3	618	4	US-10-320-874-18	Sequence 18, Appl
718	87	3.3	4623	6	US-11-097-143-40110	Sequence 40110, A	791	86	3.3	618	4	US-10-321-210-18	Sequence 18, Appl
719	86.5	3.3	240	4	US-10-369-493-15598	Sequence 15598, A	792	86	3.3	618	4	US-10-701-200-8	Sequence 8, Appli
720	86.5	3.3	240	4	US-10-369-493-15975	Sequence 15975, A	793	86	3.3	627	5	US-10-739-930-6264	Sequence 6264, Ap
721	86.5	3.3	323	4	US-10-282-122A-55567	Sequence 55567, A	794	86	3.3	638	4	US-10-282-122A-59844	Sequence 59844, A
722	86.5	3.3	334	4	US-10-369-493-515	Sequence 515, App	795	86	3.3	658	4	US-10-282-122A-64217	Sequence 64217, A
723	86.5	3.3	368	4	US-10-282-122A-50478	Sequence 50478, A	796	86	3.3	682	5	US-10-732-923-19318	Sequence 19318, A
724	86.5	3.3	397	4	US-10-437-963-108144	Sequence 108144,	797	86	3.3	682	5	US-10-511-627-20	Sequence 20, Appl
725	86.5	3.3	416	4	US-10-424-599-143427	Sequence 143427,	798	86	3.3	682	6	US-11-097-143-3465	Sequence 3465, Ap
726	86.5	3.3	427	4	US-10-437-963-155529	Sequence 155529,	799	86	3.3	702	3	US-09-741-669-391	Sequence 391, App
727	86.5	3.3	468	4	US-10-369-493-3365	Sequence 3365, Ap	800	86	3.3	702	4	US-10-282-122A-42756	Sequence 42756, A
728	86.5	3.3	516	3	US-09-895-840-2	Sequence 2, Appli	801	86	3.3	702	5	US-10-862-424-22	Sequence 22, Appl
729	86.5	3.3	527	5	US-10-450-763-45802	Sequence 45802, A	802	86	3.3	760	4	US-10-282-122A-51167	Sequence 51167, A
730	86.5	3.3	575	3	US-09-930-512-35	Sequence 35, Appl	803	86	3.3	765	3	US-09-989-339-2	Sequence 2, Appli
731	86.5	3.3	594	4	US-10-168-066-9	Sequence 9, Appli	804	86	3.3	795	3	US-09-921-259-6	Sequence 6, Appli
732	86.5	3.3	625	5	US-10-481-596-20	Sequence 20, Appl	805	86	3.3	795	4	US-10-425-115-315839	Sequence 1359, Ap
733	86.5	3.3	625	6	US-11-097-143-19659	Sequence 19659, A	806	86	3.3	847	4	US-10-369-493-1359	Sequence 77424, A
734	86.5	3.3	635	4	US-10-282-122A-75599	Sequence 75599, A	807	86	3.3	881	4	US-10-282-122A-77424	Sequence 18, Appl
735	86.5	3.3	705	4	US-10-282-122A-77556	Sequence 77556, A	808	86	3.3	1163	3	US-09-893-348-18	Sequence 18, Appl
736	86.5	3.3	718	3	US-09-881-579-14	Sequence 14, Appl	809	86	3.3	1163	5	US-10-810-653-18	Sequence 58, Appl
737	86.5	3.3	718	4	US-10-425-114-56143	Sequence 56143, A	810	86	3.3	1247	5	US-10-618-281-59	Sequence 59, Appl
738	86.5	3.3	732	4	US-10-282-122A-54856	Sequence 54856, A	811	86	3.3	1383	4	US-10-437-963-129326	Sequence 129326,
739	86.5	3.3	735	5	US-10-511-362-10	Sequence 10, Appl	812	86	3.3	1509	3	US-09-901-940-2	Sequence 2, Appli
740	86.5	3.3	781	4	US-10-425-115-189490	Sequence 189490,	813	86	3.3	3896	4	US-10-461-194-133	Sequence 133, App
741	86.5	3.3	979	4	US-10-437-963-156496	Sequence 156496,	814	85.5	3.3	3896	4	US-10-425-114-60672	Sequence 60672, A
742	86.5	3.3	1160	4	US-10-437-963-191171	Sequence 191171,	815	85.5	3.3	3896	5	US-10-732-923-19389	Sequence 18389, A
743	86.5	3.3	1169	4	US-10-369-493-22928	Sequence 22928, A	816	85.5	3.3	364	4	US-10-282-122A-57893	Sequence 300663, A
744	86.5	3.3	1357	4	US-10-282-122A-67813	Sequence 67813, A	817	85.5	3.3	364	4	US-10-425-115-300063	Sequence 78993, A
745	86.5	3.3	1448	4	US-10-282-122A-66468	Sequence 66468, A	818	85.5	3.3	369	4	US-10-425-114-64224	Sequence 64224, A
746	86.5	3.3	1664	4	US-10-210-130-102	Sequence 102, App	819	85.5	3.3	369	4	US-10-425-114-71860	Sequence 71860, A
747	86.5	3.3	1842	5	US-10-732-923-18307	Sequence 18307, A	820	85.5	3.3	425	4	US-10-425-114-68106	Sequence 68106, A
748	86.5	3.3	1856	3	US-10-085-198-8	Sequence 8, Appli	821	85.5	3.3	439	4	US-10-424-599-281104	Sequence 281104,
749	86.5	3.3	1864	3	US-09-832-292-27	Sequence 27, Appl	822	85.5	3.3	458	4	US-10-141-531-165	Sequence 165, App
750	86.5	3.3	1864	3	US-09-930-512-6	Sequence 6, Appli	823	85.5	3.3	458	4	US-10-290-072-165	Sequence 165, App
751	86.5	3.3	1864	4	US-10-153-244-9	Sequence 9, Appli	824	85.5	3.3	594	5	US-10-450-763-47049	Sequence 47049, A
752	86.5	3.3	1864	5	US-10-343-903-23	Sequence 23, Appl	825	85.5	3.3	633	4	US-10-381-779-19	Sequence 19, Appl
753	86.5	3.3	1885	3	US-09-920-346-2	Sequence 2, Appli	826	85.5	3.3	633	4	US-10-369-493-23200	Sequence 23200, A
754	86.5	3.3	1885	4	US-10-353-690-68	Sequence 68, Appl	827	85.5	3.3	696	4	US-10-282-122A-52112	Sequence 52112, A
755	86.5	3.3	1885	4	US-10-423-543-64	Sequence 64, Appl	828	85.5	3.3	707	4	US-10-437-963-145806	Sequence 145806,
756	86.5	3.3	1885	5	US-10-753-267-24	Sequence 24, Appl	829	85.5	3.3	756	4	US-10-437-963-194126	Sequence 194126,
757	86.5	3.3	2271	5	US-10-732-923-19032	Sequence 19032, A	830	85.5	3.3	785	4	US-10-437-963-133586	Sequence 133586,
758	86	3.3	150	4	US-10-424-599-281265	Sequence 281265,	831	85.5	3.3	867	4	US-10-389-566-1946	Sequence 1946, Ap
759	86	3.3	264	4	US-10-282-122A-53397	Sequence 53397, A	832	85.5	3.3	867	5	US-10-732-923-6906	Sequence 6906, Ap
760	86	3.3	285	4	US-10-425-114-72385	Sequence 72385, A	833	85.5	3.3	867	5	US-10-437-963-193181	Sequence 193181,
761	86	3.3	304	4	US-10-408-765A-1913	Sequence 1913, Ap	834	85.5	3.3	1002	4	US-10-437-963-626-4656	Sequence 4656, Ap
762	86	3.3	330	4	US-10-282-122A-74700	Sequence 74700, A	835	85.5	3.3	1014	3	US-09-738-626-4656	Sequence 191006,
763	86	3.3	334	4	US-10-141-531-68	Sequence 68, Appl	836	85.5	3.3	1046	4	US-10-437-963-191006	Sequence 2816, Ap
764	86	3.3	334	4	US-10-141-531-81	Sequence 81, Appl	837	85.5	3.3	1105	5	US-10-369-493-2816	Sequence 7, Appli
765	86	3.3	334	4	US-10-141-531-126	Sequence 126, App	838	85.5	3.3	1125	5	US-10-684-129-7	Sequence 8, Appli
766	86	3.3	334	4	US-10-032-201B-218	Sequence 218, App	839	85.5	3.3	1161	3	US-09-817-762-8	Sequence 8, Appli
767	86	3.3	334	4	US-10-290-072-68	Sequence 68, Appl	840	85.5	3.3	1162	4	US-10-282-122A-67972	Sequence 67972, A
768	86	3.3	334	4	US-10-290-072-81	Sequence 81, Appl	841	85.5	3.3	1230	4	US-10-369-493-1929	Sequence 1929, Ap

842	85.5	3.3	1232	5	US-10-511-698-63	Sequence 63, Appl	915	84.5	3.2	398	5	US-10-501-282-60	Sequence 60, Appl
843	85.5	3.3	1262	4	US-10-032-585-7858	Sequence 7858, Ap	916	84.5	3.2	401	4	US-10-369-493-16938	Sequence 16938, A
844	85.5	3.3	2011	3	US-09-832-292-31	Sequence 31, Appl	917	84.5	3.2	437	3	US-09-738-626-3392	Sequence 3392, Ap
845	85.5	3.3	3317	4	US-10-080-334-200	Sequence 200, App	918	84.5	3.2	442	5	US-10-501-282-3858	Sequence 3858, Ap
846	85	3.2	334	4	US-10-141-531-153	Sequence 153, App	919	84.5	3.2	445	4	US-10-425-114-38400	Sequence 38400, A
847	85	3.2	334	4	US-10-141-531-189	Sequence 189, App	920	84.5	3.2	453	4	US-10-478-516-15	Sequence 15, Appl
848	85	3.2	334	4	US-10-290-072-183	Sequence 183, App	921	84.5	3.2	469	4	US-10-417-700A-75	Sequence 75, Appl
849	85	3.2	334	4	US-10-290-072-189	Sequence 189, App	922	84.5	3.2	517	6	US-11-097-143-663	Sequence 663, App
850	85	3.2	356	4	US-10-437-963-185223	Sequence 185223,	923	84.5	3.2	545	4	US-10-610-295-2	Sequence 2, Appl
851	85	3.2	384	4	US-10-282-122A-61295	Sequence 61295, A	924	84.5	3.2	551	4	US-10-425-115-325369	Sequence 325369,
852	85	3.2	385	4	US-10-214-473-80	Sequence 80, Appl	925	84.5	3.2	571	4	US-10-282-122A-68558	Sequence 68558, A
853	85	3.2	385	4	US-10-272-490-80	Sequence 80, Appl	926	84.5	3.2	575	4	US-10-282-122A-69500	Sequence 69500, A
854	85	3.2	405	4	US-10-282-122A-67708	Sequence 67708, A	927	84.5	3.2	621	4	US-10-425-115-363659	Sequence 363659,
855	85	3.2	421	4	US-10-428-275-344	Sequence 344, App	928	84.5	3.2	627	4	US-10-437-963-184642	Sequence 154842,
856	85	3.2	434	4	US-10-437-963-143987	Sequence 143987,	929	84.5	3.2	643	4	US-10-175-003-2	Sequence 2, Appl
857	85	3.2	485	4	US-10-282-122A-43786	Sequence 43786, A	930	84.5	3.2	739	4	US-10-282-122A-53185	Sequence 53185, A
858	85	3.2	485	5	US-10-857-625-714	Sequence 714, App	931	84.5	3.2	760	5	US-10-739-930-6376	Sequence 6376, Ap
859	85	3.2	490	4	US-10-424-599-209072	Sequence 209072,	932	84.5	3.2	821	4	US-10-437-963-182640	Sequence 182640,
860	85	3.2	495	3	US-09-815-242-5040	Sequence 5040, Ap	933	84.5	3.2	831	4	US-10-282-122A-55177	Sequence 166760,
861	85	3.2	495	3	US-09-815-242-10315	Sequence 10315, A	934	84.5	3.2	954	4	US-10-437-963-166760	Sequence 13613, A
862	85	3.2	495	3	US-09-815-242-11716	Sequence 11716, A	935	84.5	3.2	976	5	US-10-732-923-13613	Sequence 2716, Ap
863	85	3.2	495	4	US-10-282-122A-43262	Sequence 43262, A	936	84.5	3.2	1014	4	US-10-369-493-2716	Sequence 12920, A
864	85	3.2	495	4	US-10-282-122A-59384	Sequence 59384, A	937	84.5	3.2	1014	5	US-10-732-923-12920	Sequence 41, Appl
865	85	3.2	495	4	US-10-351-891-124	Sequence 124, App	938	84.5	3.2	1232	4	US-10-618-281-41	Sequence 128496,
866	85	3.2	500	5	US-10-699-113-29	Sequence 29, Appl	939	84.5	3.2	1252	4	US-10-437-963-18496	Sequence 2574, Ap
867	85	3.2	500	3	US-09-909-566C-2	Sequence 2, Appl	940	84.5	3.2	1259	4	US-10-408-765A-2574	Sequence 2574, Ap
868	85	3.2	500	4	US-10-759-813-2	Sequence 2, Appl	941	84.5	3.2	1384	4	US-10-437-421-25	Sequence 20808,
869	85	3.2	500	5	US-10-732-923-24095	Sequence 24095, A	942	84.5	3.2	1435	4	US-10-437-963-159919	Sequence 159919,
870	85	3.2	574	4	US-10-369-493-14349	Sequence 14349, A	943	84.5	3.2	1441	4	US-10-437-963-159919	Sequence 60977, A
871	85	3.2	584	5	US-10-870-690-67	Sequence 67, Appl	944	84.5	3.2	1446	4	US-10-282-122A-60977	Sequence 138223,
872	85	3.2	592	4	US-10-369-493-24	Sequence 24, Appl	945	84.5	3.2	1496	4	US-10-437-963-138323	Sequence 33798, A
873	85	3.2	631	4	US-10-108-605-169	Sequence 169, App	946	84.5	3.2	1544	6	US-11-097-143-33798	Sequence 107022,
874	85	3.2	631	6	US-11-097-143-10920	Sequence 10920, A	947	84.5	3.2	1603	4	US-10-437-963-107022	Sequence 38, Appl
875	85	3.2	648	4	US-10-425-115-206110	Sequence 206110,	948	84.5	3.2	1812	3	US-09-775-938A-38	Sequence 2317, Ap
876	85	3.2	713	4	US-10-369-493-708	Sequence 708, App	949	84.5	3.2	2021	4	US-10-408-765A-2317	Sequence 10253, A
877	85	3.2	809	4	US-10-282-122A-56289	Sequence 56289, A	950	84.5	3.2	3147	5	US-10-732-923-10253	Sequence 10252, A
878	85	3.2	810	3	US-09-815-242-5586	Sequence 5586, Ap	951	84.5	3.2	3167	5	US-10-732-923-10252	Sequence 70, Appl
879	85	3.2	818	3	US-09-815-242-12424	Sequence 12424, A	952	84.5	3.2	4861	3	US-09-919-497-70	Sequence 49, Appl
880	85	3.2	818	3	US-09-815-242-12789	Sequence 12789, A	953	84.5	3.2	4861	4	US-10-097-534-26	Sequence 486, App
881	85	3.2	818	4	US-10-282-122A-44278	Sequence 44278, A	954	84.5	3.2	4861	5	US-10-146-473-49	Sequence 486, App
882	85	3.2	818	5	US-10-732-923-6868	Sequence 6868, Ap	955	84.5	3.2	4861	5	US-10-287-436A-486	Sequence 1182, Ap
883	85	3.2	932	4	US-10-126-927-65	Sequence 65, Appl	956	84.5	3.2	4861	5	US-10-287-436A-1182	Sequence 24477, A
884	85	3.2	932	4	US-10-126-931A-65	Sequence 65, Appl	957	84.5	3.2	4899	6	US-11-097-143-24447	Sequence 165340,
885	85	3.2	932	6	US-11-009-635-65	Sequence 65, Appl	958	84	3.2	129	4	US-10-437-963-165340	Sequence 111, App
886	85	3.2	938	5	US-10-739-930-5586	Sequence 5586, Ap	959	84	3.2	231	5	US-10-181-585B-111	Sequence 832, App
887	85	3.2	1038	4	US-10-282-122A-59110	Sequence 59110, A	960	84	3.2	232	4	US-10-408-765A-832	Sequence 373, App
888	85	3.2	1126	4	US-10-369-493-11877	Sequence 11877, A	961	84	3.2	239	4	US-10-408-765A-373	Sequence 6432, A
889	85	3.2	1144	5	US-10-501-282-2136	Sequence 2136, Ap	962	84	3.2	278	4	US-10-425-114-64432	Sequence 47606, A
890	85	3.2	1274	5	US-10-491-472-52	Sequence 52, Appl	963	84	3.2	319	4	US-10-282-122A-47606	Sequence 90, Appl
891	85	3.2	1275	4	US-10-755-889-635	Sequence 635, App	964	84	3.2	334	4	US-10-141-531-90	Sequence 99, Appl
892	85	3.2	1285	4	US-10-452-024-165	Sequence 165, App	965	84	3.2	334	4	US-10-141-531-99	Sequence 108, App
893	85	3.2	1291	4	US-10-452-024-166	Sequence 166, App	966	84	3.2	334	4	US-10-141-531-108	Sequence 117, App
894	85	3.2	1291	4	US-10-369-493-6949	Sequence 6949, Ap	967	84	3.2	334	4	US-10-141-531-117	Sequence 135, App
895	85	3.2	1390	4	US-10-369-493-10438	Sequence 10438, A	968	84	3.2	334	4	US-10-141-531-135	Sequence 144, App
896	85	3.2	1464	4	US-10-282-122A-57720	Sequence 57720, A	969	84	3.2	334	4	US-10-141-531-144	Sequence 162, App
897	85	3.2	1464	4	US-10-038-224-2	Sequence 2, Appl	970	84	3.2	334	4	US-10-141-531-162	Sequence 171, App
898	85	3.2	1464	4	US-10-171-008-6	Sequence 6, Appl	971	84	3.2	334	4	US-10-141-531-171	Sequence 180, App
899	85	3.2	1464	4	US-10-371-077-8	Sequence 8, Appl	972	84	3.2	334	4	US-10-141-531-180	Sequence 198, App
900	85	3.2	1464	4	US-10-794-865-2	Sequence 2, Appl	973	84	3.2	334	4	US-10-141-531-198	Sequence 90, Appl
901	85	3.2	1567	4	US-10-282-122A-50371	Sequence 50371, A	974	84	3.2	334	4	US-10-290-072-90	Sequence 99, Appl
902	85	3.2	1592	5	US-10-756-149-5763	Sequence 5763, Ap	975	84	3.2	334	4	US-10-290-072-99	Sequence 108, App
903	85	3.2	1755	5	US-10-758-672A-4	Sequence 4, Appl	976	84	3.2	334	4	US-10-290-072-108	Sequence 117, App
904	85	3.2	1755	5	US-10-758-636A-4	Sequence 4, Appl	977	84	3.2	334	4	US-10-290-072-117	Sequence 135, App
905	85	3.2	3623	6	US-11-097-143-28422	Sequence 28422, A	978	84	3.2	334	4	US-10-290-072-135	Sequence 144, App
906	84.5	3.2	136	4	US-10-425-114-62402	Sequence 62402, A	979	84	3.2	334	4	US-10-290-072-162	Sequence 162, App
907	84.5	3.2	136	4	US-10-425-115-345494	Sequence 345494,	980	84	3.2	334	4	US-10-290-072-171	Sequence 171, App
908	84.5	3.2	293	5	US-10-204-921-89	Sequence 89, Appl	981	84	3.2	334	4	US-10-290-072-180	Sequence 180, App
909	84.5	3.2	306	4	US-10-437-963-171611	Sequence 171611,	982	84	3.2	334	4	US-10-290-072-198	Sequence 198, App
910	84.5	3.2	322	5	US-10-501-282-58	Sequence 58, Appl	983	84	3.2	338	4	US-10-437-963-137453	Sequence 137453,
911	84.5	3.2	332	4	US-10-282-122A-73768	Sequence 73768, A	984	84	3.2	339	4	US-10-282-122A-48784	Sequence 48784, A
912	84.5	3.2	332	4	US-10-474-776-620	Sequence 620, App	985	84	3.2	339	4	US-10-767-701-45605	Sequence 45605, A
913	84.5	3.2	332	5	US-10-472-928-398	Sequence 398, App	986	84	3.2	349	4	US-10-732-923-10471	Sequence 10471, A
914	84.5	3.2	335	5	US-10-723-860-3454	Sequence 3454, Ap	987	84	3.2	363	5		

988	84	3.2	402	4	US-10-282-122A-59750	Sequence 59750, A	1238	83.5	3.2	458	4	US-10-290-072-93	Sequence 93, Appl
989	84	3.2	414	4	US-10-424-599-165357	Sequence 165357, A	1239	83.5	3.2	472	4	US-10-425-114-41069	Sequence 41069, A
990	84	3.2	420	4	US-10-369-493-9819	Sequence 9819, Ap	1240	83.5	3.2	485	5	US-10-450-763-46109	Sequence 46109, A
991	84	3.2	430	4	US-10-425-114-64524	Sequence 64524, A	1241	83.5	3.2	490	4	US-10-369-493-3411	Sequence 3411, Ap
992	84	3.2	431	4	US-10-425-115-307581	Sequence 307581, A	1242	83.5	3.2	490	5	US-10-866-527-18	Sequence 18, Appl
993	84	3.2	451	4	US-10-425-115-254495	Sequence 254495, A	1243	83.5	3.2	515	4	US-10-369-493-10	Sequence 10, Appl
994	84	3.2	455	4	US-10-437-963-152319	Sequence 152319, A	1244	83.5	3.2	532	4	US-10-369-493-11279	Sequence 11279, A
995	84	3.2	472	3	US-09-815-242-10824	Sequence 10824, A	1245	83.5	3.2	535	5	US-10-732-923-22805	Sequence 22805, A
996	84	3.2	501	4	US-10-282-122A-61998	Sequence 61998, A	1246	83.5	3.2	545	4	US-10-282-122A-61248	Sequence 61248, A
997	84	3.2	548	5	US-10-898-775-58	Sequence 58, Appl	1247	83.5	3.2	606	4	US-10-437-963-190056	Sequence 190056, A
998	84	3.2	548	5	US-10-911-160-34	Sequence 34, Appl	1248	83.5	3.2	627	5	US-10-732-923-22803	Sequence 22803, A
999	84	3.2	559	4	US-10-282-122A-53355	Sequence 53355, A	1249	83.5	3.2	667	4	US-10-032-201B-288	Sequence 288, App
1000	84	3.2	565	4	US-10-369-493-20201	Sequence 20201, A	1250	83.5	3.2	695	5	US-10-732-923-9813	Sequence 9813, App
1001	84	3.2	582	4	US-10-282-122A-68316	Sequence 68316, A	1251	83.5	3.2	768	4	US-10-282-122A-45053	Sequence 45053, A
1002	84	3.2	586	4	US-10-389-566-1867	Sequence 1867, Ap	1252	83.5	3.2	769	5	US-10-732-923-23198	Sequence 23198, A
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1004	84	3.2	633	4	US-10-087-192-159	Sequence 159, App	1254	83.5	3.2	859	4	US-10-437-963-186692	Sequence 186692, A
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1007	84	3.2	793	4	US-10-369-493-3053	Sequence 3053, Ap	1257	83.5	3.2	886	4	US-10-412-699B-1109	Sequence 1109, Ap
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	233	8.9	231	6	US-10-454-437-194
5	210	8.0	411	6	US-10-467-657-5868
6	174	6.6	394	7	US-11-232-405A-44
7	126	4.8	418	6	US-10-793-626-380
8	112	4.3	410	7	US-11-159-428-10
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12	111.5	4.3	2061	7	US-11-169-041-179
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17	103.5	3.9	805	6	US-10-485-517-297
18	103	3.9	444	7	US-11-087-099-4887
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23	100	3.8	462	7	US-11-096-568A-28255
24	99	3.8	442	6	US-10-909-769-23
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26	96.5	3.7	498	7	US-11-131-479-76

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29	94	3.6	817	6	US-10-793-626-50	Sequence 50, Appl
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38	90.5	3.5	1433	7	US-11-096-568A-31241	Sequence 31241, A
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54	87.5	3.3	616	6	US-10-995-561-1018	Sequence 1018, Ap
55	87.5	3.3	616	6	US-10-995-561-1022	Sequence 1022, Ap
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59	87.5	3.3	1160	6	US-10-995-561-1019	Sequence 1019, Ap
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63	87	3.3	444	6	US-10-995-561-834	Sequence 834, App
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77	85	3.2	500	7	US-11-087-099-4317	Sequence 4317, Ap
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83	84.5	3.2	343	7	US-11-096-568A-33745	Sequence 33745, A
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94	84	3.2	650	5	US-09-995-493-170	Sequence 170, App
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97	83.5	3.2	510	6	US-10-793-626-2860	Sequence 2860, Ap
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104	83	3.2	488	6	US-10-485-517-307	Sequence 307, App	178	79.5	3.0	605	7	US-11-096-568A-24622	Sequence 24622, A
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117	81.5	3.1	386	7	US-11-096-568A-19384	Sequence 19384, A	191	79	3.0	373	7	US-11-096-568A-6341	Sequence 6341, Ap
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124	81.5	3.1	706	7	US-11-024-959-269	Sequence 269, App	198	79	3.0	523	6	US-10-453-372-1008	Sequence 1008, Ap
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126	81.5	3.1	1111	7	US-11-087-099-998	Sequence 998, App	200	79	3.0	860	7	US-11-087-099-3110	Sequence 3110, Ap
127	81.5	3.1	1111	7	US-11-087-099-5147	Sequence 5147, Ap	201	79	3.0	972	7	US-11-202-566-9	Sequence 9, Appli
128	81.5	3.1	1549	7	US-11-096-568A-31271	Sequence 31271, A	202	79	3.0	1228	7	US-11-202-566-7	Sequence 7, Appli
129	81.5	3.1	8695	7	US-11-205-109-15	Sequence 15, Appl	203	78.5	3.0	348	6	US-10-617-034A-1	Sequence 1, Appli
130	81	3.1	414	7	US-11-096-568A-28912	Sequence 28912, A	204	78.5	3.0	365	7	US-11-087-099-4280	Sequence 4280, Ap
131	81	3.1	421	6	US-10-878-556A-173	Sequence 173, App	205	78.5	3.0	385	7	US-11-087-099-1453	Sequence 1453, Ap
132	81	3.1	443	6	US-10-873-528-152	Sequence 152, App	206	78.5	3.0	418	7	US-11-096-568A-26975	Sequence 26975, A
133	81	3.1	479	7	US-11-096-568A-28911	Sequence 28911, A	207	78.5	3.0	449	7	US-11-087-099-4178	Sequence 4178, Ap
134	81	3.1	485	6	US-11-096-568A-28910	Sequence 28910, A	208	78.5	3.0	459	6	US-10-467-657-3092	Sequence 3092, Ap
135	81	3.1	635	6	US-10-793-626-1346	Sequence 1346, Ap	209	78.5	3.0	637	6	US-11-087-099-2517	Sequence 2517, Ap
136	81	3.1	635	6	US-10-467-657-2076	Sequence 2076, Ap	210	78.5	3.0	638	6	US-10-995-561-1025	Sequence 1025, Ap
137	81	3.1	635	6	US-10-467-657-6374	Sequence 6374, Ap	211	78.5	3.0	730	7	US-11-113-424-50	Sequence 50, Appl
138	81	3.1	752	7	US-11-087-099-12393	Sequence 12393, A	212	78.5	3.0	757	7	US-11-031-206-184	Sequence 184, Appl
139	81	3.1	873	6	US-10-793-626-3036	Sequence 3036, Ap	213	78.5	3.0	1183	7	US-11-115-639-17	Sequence 17, Appl
140	81	3.1	1149	7	US-11-110-082-30	Sequence 30, Appl	214	78.5	3.0	1571	7	US-11-134-587B-12	Sequence 12, Appl
141	81	3.1	1193	7	US-11-115-639-19	Sequence 19, Appl	215	78.5	3.0	1618	6	US-11-134-587B-13	Sequence 13, Appl
142	81	3.1	1193	7	US-11-115-639-20	Sequence 20, Appl	216	78.5	3.0	1910	7	US-11-134-587B-2	Sequence 2, Appli
143	81	3.1	1216	7	US-11-115-639-44	Sequence 44, Appl	217	78.5	3.0	1910	7	US-11-134-587B-3	Sequence 3, Appli
144	81	3.1	1216	7	US-11-115-639-45	Sequence 45, Appl	218	78.5	3.0	3655	7	US-11-075-185-5	Sequence 5, Appli
145	80.5	3.1	308	7	US-11-096-568A-20980	Sequence 20980, A	219	78.5	3.0	456	7	US-11-069-642-15	Sequence 15, Appl
146	80.5	3.1	348	7	US-11-096-568A-20979	Sequence 20979, A	220	78	3.0	617	7	US-11-096-568A-8956	Sequence 8956, Ap
147	80.5	3.1	368	7	US-11-096-568A-20978	Sequence 20978, A	221	78	3.0	676	7	US-11-052-554A-41	Sequence 41, Appl
148	80.5	3.1	498	7	US-11-096-568A-5071	Sequence 5071, Ap	222	78	3.0	801	6	US-10-453-372-466	Sequence 466, App
149	80.5	3.1	500	7	US-11-096-568A-5070	Sequence 5070, Ap	223	78	3.0	801	6	US-10-453-372-468	Sequence 468, App
150	80.5	3.1	571	6	US-10-793-626-118	Sequence 118, App	224	78	3.0	829	6	US-10-880-144-6	Sequence 6, Appli
151	80.5	3.1	587	7	US-11-087-099-9951	Sequence 9951, Ap	225	78	3.0	852	7	US-11-087-099-4834	Sequence 4834, Ap
152	80.5	3.1	614	7	US-11-074-176-80	Sequence 80, Appl	226	78	3.0	1114	7	US-11-096-568A-31532	Sequence 31532, A
153	80.5	3.1	657	7	US-11-087-099-11696	Sequence 11696, A	227	78	3.0	1116	7	US-11-096-568A-31531	Sequence 31531, A
154	80.5	3.1	677	7	US-11-010-239-48	Sequence 48, Appl	228	78	3.0	1153	7	US-11-096-568A-31530	Sequence 31530, A
155	80.5	3.1	758	7	US-11-087-099-7759	Sequence 7759, Ap	229	78	3.0	1159	6	US-11-194-246-439	Sequence 439, App
156	80.5	3.1	834	6	US-10-973-115B-148	Sequence 148, App	230	78	3.0	299	6	US-10-467-657-436	Sequence 436, App
157	80.5	3.1	867	7	US-11-087-099-10404	Sequence 10404, A	231	77.5	3.0	579	6	US-10-821-234-1352	Sequence 1352, Ap
158	80.5	3.1	337	7	US-11-096-568A-23702	Sequence 23702, A	232	77.5	3.0	714	7	US-11-096-568A-27921	Sequence 27921, A
159	80	3.0	343	7	US-11-096-568A-26968	Sequence 26968, A	233	77.5	3.0	834	6	US-10-624-932-6	Sequence 6, Appli
160	80	3.0	345	7	US-11-087-099-1996	Sequence 1996, Ap	234	77.5	3.0	841	6	US-10-624-932-8	Sequence 8, Appli
161	80	3.0	401	7	US-11-087-099-1996	Sequence 23701, A	235	77.5	3.0	841	6	US-10-995-561-709	Sequence 709, App
162	80	3.0	433	7	US-11-096-568A-23701	Sequence 23700, A	236	77.5	3.0	1206	6	US-10-995-561-709	Sequence 4, Appli
163	80	3.0	476	7	US-11-264-728-2	Sequence 2, Appli	237	77.5	3.0	1256	7	US-11-144-368-4	Sequence 4, Appli
164	80	3.0	512	6	US-10-821-234-1032	Sequence 1032, Ap	238	77.5	3.0	2455	7	US-11-186-999-4	Sequence 13, Appl
165	80	3.0	838	7	US-11-096-568A-32096	Sequence 32096, A	239	77.5	3.0	2458	7	US-11-186-999-13	Sequence 1142, Ap
166	80	3.0	917	7	US-11-096-568A-32095	Sequence 32095, A	240	77.5	3.0	4913	6	US-10-453-372-1142	Sequence 1132, Ap
167	80	3.0	949	7	US-11-096-568A-32094	Sequence 32094, A	241	77.5	3.0	4961	6	US-10-453-372-1132	Sequence 9281, Ap
168	80	3.0	1164	7	US-11-087-099-2278	Sequence 2278, Ap	242	77.5	3.0	249	7	US-11-087-099-9281	Sequence 402, App
169	80	3.0	1164	7	US-11-087-099-9070	Sequence 9070, Ap	243	77	2.9	358	7	US-11-024-959-402	Sequence 66, Appl
170	80	3.0	7968	7	US-11-186-731-5	Sequence 5, Appli	244	77	2.9	377	7	US-11-019-711-66	Sequence 414, App
171	80	3.0	409	7	US-11-096-568A-19135	Sequence 19135, A	245	77	2.9	381	7	US-11-055-822-414	Sequence 706, App
172	79.5	3.0	415	7	US-11-096-568A-19134	Sequence 19134, A	246	77	2.9	381	7	US-11-055-822-706	
173	79.5	3.0	442	6	US-10-873-528-6	Sequence 6, Appli	247	77	2.9				
174	79.5	3.0											

248	77	2.9	463	7	US-11-087-099-5364	Sequence 5364, Ap	323	75.5	2.9	1275	6	US-10-724-598-49	Sequence 49, Appl
249	77	2.9	513	7	US-11-096-568A-466	Sequence 466, App	324	75.5	2.9	2769	7	US-11-113-424-14	Sequence 14, Appl
250	77	2.9	544	7	US-11-096-568A-465	Sequence 465, App	325	75	2.9	264	7	US-11-087-099-772	Sequence 772, App
251	77	2.9	544	7	US-11-096-568A-467	Sequence 467, App	326	75	2.9	374	6	US-10-793-626-1664	Sequence 1664, Ap
252	77	2.9	563	7	US-11-096-568A-464	Sequence 464, App	327	75	2.9	465	7	US-11-024-959-288	Sequence 288, App
253	77	2.9	598	6	US-10-203-486-11	Sequence 11, Appl	328	75	2.9	485	7	US-11-165-211-47	Sequence 47, Appl
254	77	2.9	626	7	US-11-098-686-10124	Sequence 10124, A	329	75	2.9	485	7	US-11-165-226-57	Sequence 57, Appl
255	77	2.9	649	7	US-11-072-512-3492	Sequence 3492, Ap	330	75	2.9	592	6	US-10-467-962B-95	Sequence 95, Appl
256	77	2.9	701	7	US-11-096-568A-27913	Sequence 27913, A	331	75	2.9	592	6	US-10-524-647-110	Sequence 110, App
257	77	2.9	738	7	US-11-147-047-48	Sequence 48, Appl	332	75	2.9	592	6	US-10-524-647-110	Sequence 110, App
258	77	2.9	779	7	US-11-096-568A-1544	Sequence 1544, Ap	333	75	2.9	674	7	US-11-096-568A-2565	Sequence 2565, Ap
259	77	2.9	784	7	US-11-096-568A-1543	Sequence 1543, Ap	334	75	2.9	676	7	US-11-096-568A-2564	Sequence 2564, Ap
260	77	2.9	831	7	US-11-096-568A-1542	Sequence 1542, Ap	335	75	2.9	737	7	US-11-098-686-11389	Sequence 11389, A
261	77	2.9	1070	7	US-11-147-047-49	Sequence 49, Appl	336	75	2.9	960	7	US-11-087-099-8676	Sequence 8676, Ap
262	77	2.9	1204	7	US-11-145-631-5	Sequence 5, Appl	337	75	2.9	1059	7	US-11-096-568A-30370	Sequence 30370, A
263	76.5	2.9	371	7	US-11-087-099-9685	Sequence 9685, Ap	338	75	2.9	1077	7	US-11-096-568A-30369	Sequence 30369, A
264	76.5	2.9	374	6	US-10-793-626-2162	Sequence 2162, Ap	339	75	2.9	1108	7	US-11-096-568A-28813	Sequence 28813, A
265	76.5	2.9	446	6	US-10-533-811-49	Sequence 49, Appl	340	75	2.9	1108	7	US-11-096-568A-30368	Sequence 30368, A
266	76.5	2.9	519	7	US-11-096-568A-29569	Sequence 29569, A	341	75	2.9	1115	7	US-11-096-568A-28812	Sequence 28812, A
267	76.5	2.9	525	7	US-11-096-568A-28134	Sequence 28134, A	342	75	2.9	1144	7	US-11-096-568A-28811	Sequence 28811, A
268	76.5	2.9	525	7	US-11-096-568A-29568	Sequence 29568, A	343	75	2.9	1152	7	US-11-053-822-308	Sequence 308, App
269	76.5	2.9	532	7	US-11-096-568A-13049	Sequence 13049, A	344	75	2.9	1338	7	US-11-087-099-11043	Sequence 11043, A
270	76.5	2.9	543	7	US-11-096-568A-28133	Sequence 28133, A	345	75	2.9	6893	7	US-11-205-109-14	Sequence 14, Appl
271	76.5	2.9	543	7	US-11-096-568A-29567	Sequence 29567, A	346	74.5	2.8	257	7	US-11-096-568A-16683	Sequence 16683, A
272	76.5	2.9	559	6	US-10-821-234-947	Sequence 947, App	347	74.5	2.8	283	7	US-11-096-568A-29608	Sequence 29608, A
273	76.5	2.9	566	7	US-11-096-568A-28132	Sequence 28132, A	348	74.5	2.8	305	7	US-11-087-099-8904	Sequence 8904, Ap
274	76.5	2.9	613	6	US-10-973-115B-190	Sequence 190, App	349	74.5	2.8	315	7	US-11-098-686-11063	Sequence 11063, A
275	76.5	2.9	633	6	US-11-132-764-7	Sequence 7, Appl	350	74.5	2.8	341	7	US-11-096-568A-28714	Sequence 28714, A
276	76.5	2.9	993	7	US-10-959-611-2	Sequence 2, Appl	351	74.5	2.8	341	7	US-11-096-568A-29607	Sequence 29607, A
277	76.5	2.9	1010	6	US-11-087-099-10112	Sequence 10112, A	352	74.5	2.8	352	7	US-11-096-568A-28713	Sequence 28713, A
278	76.5	2.9	1064	7	US-11-087-099-10112	Sequence 10112, A	353	74.5	2.8	352	7	US-11-096-568A-29606	Sequence 29606, A
279	76.5	2.9	1028	7	US-11-231-593-8	Sequence 8, Appl	354	74.5	2.8	355	7	US-11-087-099-11688	Sequence 11688, A
280	76.5	2.9	2458	7	US-11-186-999-6	Sequence 6, Appl	355	74.5	2.8	357	7	US-11-096-568A-28712	Sequence 28712, A
281	76	2.9	229	7	US-11-096-568A-10668	Sequence 10668, A	356	74.5	2.8	404	7	US-11-096-568A-26976	Sequence 26976, A
282	76	2.9	333	6	US-10-793-626-1960	Sequence 53, Appl	357	74.5	2.8	434	6	US-10-821-234-1553	Sequence 1553, Ap
283	76	2.9	418	6	US-10-878-556A-53	Sequence 53, App	358	74.5	2.8	454	7	US-11-074-176-142	Sequence 142, App
284	76	2.9	465	7	US-11-024-959-287	Sequence 959, App	359	74.5	2.8	468	6	US-10-467-657-2274	Sequence 2274, Ap
285	76	2.9	481	6	US-10-995-561-959	Sequence 959, App	360	74.5	2.8	475	7	US-11-087-099-318	Sequence 318, App
286	76	2.9	497	6	US-10-793-626-2812	Sequence 2812, Ap	361	74.5	2.8	475	7	US-11-087-099-10810	Sequence 10810, A
287	76	2.9	516	7	US-11-087-099-6982	Sequence 6982, Ap	362	74.5	2.8	484	6	US-10-467-657-5472	Sequence 5472, Ap
288	76	2.9	616	7	US-11-096-568A-18968	Sequence 18968, A	363	74.5	2.8	489	7	US-11-096-568A-32213	Sequence 32213, A
289	76	2.9	623	7	US-11-096-568A-18967	Sequence 18967, A	364	74.5	2.8	509	6	US-10-934-944-374	Sequence 374, App
290	76	2.9	650	7	US-11-096-568A-18966	Sequence 18966, A	365	74.5	2.8	509	7	US-11-116-881A-2270	Sequence 2270, Ap
291	76	2.9	661	7	US-11-216-267-16	Sequence 16, Appl	366	74.5	2.8	539	7	US-11-096-568A-32212	Sequence 32212, A
292	76	2.9	661	7	US-11-232-382-16	Sequence 16, Appl	367	74.5	2.8	545	7	US-11-096-568A-32211	Sequence 32211, A
293	76	2.9	855	7	US-11-072-512-2387	Sequence 2387, Ap	368	74.5	2.8	550	7	US-11-098-686-10696	Sequence 10696, A
294	76	2.9	896	7	US-11-080-991-98	Sequence 98, Appl	369	74.5	2.8	599	6	US-10-467-657-3972	Sequence 3972, Ap
295	76	2.9	1029	6	US-10-821-234-908	Sequence 908, App	370	74.5	2.8	601	6	US-10-821-234-958	Sequence 958, App
296	76	2.9	1078	7	US-11-096-568A-30451	Sequence 30451, A	371	74.5	2.8	630	7	US-11-196-400-5	Sequence 5, Appl
297	76	2.9	1116	7	US-11-096-568A-30450	Sequence 30450, A	372	74.5	2.8	630	7	US-11-169-041-186	Sequence 166, App
298	76	2.9	1123	7	US-11-096-568A-30449	Sequence 30449, A	373	74.5	2.8	630	7	US-11-200-296B-65	Sequence 65, Appl
299	76	2.9	1475	6	US-10-330-773-182	Sequence 182, App	374	74.5	2.8	792	7	US-11-115-639-16	Sequence 16, Appl
300	76	2.9	1855	7	US-11-096-568A-31249	Sequence 31249, A	375	74.5	2.8	1183	7	US-11-072-512-2933	Sequence 2933, Ap
301	76	2.9	1885	7	US-11-096-568A-31248	Sequence 31248, A	376	74.5	2.8	1196	7	US-11-052-554A-9	Sequence 9, Appl
302	76	2.9	1927	7	US-11-096-568A-31247	Sequence 31247, A	377	74.5	2.8	1579	7	US-11-186-999-11	Sequence 11, Appl
303	76	2.9	3748	7	US-11-132-686-8	Sequence 8, Appl	378	74.5	2.8	2458	7	US-11-004-399-714	Sequence 714, App
304	76	2.9	3749	7	US-11-132-686-6	Sequence 6, Appl	379	74	2.8	4386	7	US-11-096-568A-25452	Sequence 25452, A
305	76	2.9	3749	7	US-11-132-686-12	Sequence 12, Appl	380	74	2.8	181	6	US-10-793-626-86	Sequence 86, Appl
306	76	2.9	3912	7	US-11-132-686-7	Sequence 7, Appl	381	74	2.8	185	7	US-11-096-568A-25451	Sequence 25451, A
307	76	2.9	3913	7	US-11-132-686-5	Sequence 5, Appl	382	74	2.8	201	6	US-10-793-626-1514	Sequence 1514, Ap
308	76	2.9	3913	7	US-11-132-686-9	Sequence 9, Appl	383	74	2.8	266	7	US-11-096-568A-25450	Sequence 25450, A
309	75.5	2.9	251	7	US-11-096-568A-20987	Sequence 20987, A	384	74	2.8	368	7	US-11-087-099-11041	Sequence 11041, A
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311	75.5	2.9	360	7	US-11-046-255A-4	Sequence 4, Appl	386	74	2.8	369	7	US-11-055-822-32	Sequence 32, Appl
312	75.5	2.9	468	6	US-10-467-657-5696	Sequence 5696, Ap	387	74	2.8	369	7	US-11-096-568A-10384	Sequence 10384, A
313	75.5	2.9	575	6	US-10-467-657-1456	Sequence 1456, Ap	388	74	2.8	373	7	US-11-082-389-248	Sequence 248, App
314	75.5	2.9	603	7	US-11-096-568A-29091	Sequence 29091, A	389	74	2.8	423	7	US-11-096-568A-32432	Sequence 32432, A
315	75.5	2.9	616	7	US-11-096-568A-29080	Sequence 29080, A	390	74	2.8	502	7	US-11-087-099-7212	Sequence 7212, Ap
316	75.5	2.9	700	7	US-11-098-686-10793	Sequence 10793, A	391	74	2.8	503	7	US-11-074-176-350	Sequence 350, App
317	75.5	2.9	737	6	US-10-878-556A-25	Sequence 25, Appl	392	74	2.8	506	7	US-11-074-176-176	Sequence 176, App
318	75.5	2.9	857	6	US-10-613-744-11	Sequence 11, Appl	393	74	2.8	511	7	US-11-072-512-2339	Sequence 2339, Ap
319	75.5	2.9	1006	6	US-10-517-939-130	Sequence 130, App	394	74	2.8	568	6	US-10-997-247-4	Sequence 4, Appl
320	75.5	2.9	1051	6	US-10-330-773-313	Sequence 313, App	395	74	2.8	568	7	US-11-098-686-10729	Sequence 10729, A
322	75.5	2.9	1160	6	US-10-973-115B-234	Sequence 234, App							

396	74	2.8	578	7	US-11-096-568A-27923	Sequence 27923, A	470	73	2.8	1389	6	US-10-467-657-334	Sequence 334, App
397	74	2.8	594	7	US-11-096-568A-27922	Sequence 27922, A	471	73	2.8	1658	7	US-11-050-857-935	Sequence 935, App
398	74	2.8	599	6	US-10-467-657-6006	Sequence 6006, App	472	73	2.8	1673	7	US-11-050-857-936	Sequence 936, App
399	74	2.8	736	7	US-11-087-099-9655	Sequence 9655, App	473	73	2.8	1730	7	US-11-050-857-946	Sequence 946, App
400	74	2.8	745	7	US-10-517-939-30	Sequence 30, Appl	474	73	2.8	1786	7	US-11-196-400-3	Sequence 3, Appl
401	74	2.8	776	6	US-10-501-035-375	Sequence 30, Appl	475	73	2.8	2065	7	US-11-050-857-945	Sequence 945, App
402	74	2.8	780	6	US-10-561-802	Sequence 802, App	476	73	2.8	2067	7	US-11-050-857-944	Sequence 944, App
403	74	2.8	797	6	US-10-995-561-802	Sequence 375, App	477	73	2.8	2091	7	US-11-050-857-941	Sequence 941, App
404	74	2.8	873	7	US-11-087-099-7920	Sequence 7920, App	478	73	2.8	2110	7	US-11-050-857-937	Sequence 937, App
405	74	2.8	1032	6	US-10-467-657-3278	Sequence 3278, App	479	73	2.8	2201	7	US-11-050-857-933	Sequence 933, App
406	74	2.8	1098	7	US-11-072-512-2475	Sequence 2475, App	480	73	2.8	2201	7	US-11-050-857-1150	Sequence 1150, App
407	74	2.8	1177	7	US-11-115-639-23	Sequence 23, Appl	481	73	2.8	2201	7	US-11-050-857-934	Sequence 934, App
408	74	2.8	1177	7	US-11-115-639-29	Sequence 29, Appl	482	73	2.8	2216	7	US-11-087-099-1000	Sequence 1000, App
409	74	2.8	1211	7	US-11-186-284-4	Sequence 4, Appl	483	73	2.8	246	7	US-11-087-099-863	Sequence 863, App
410	73.5	2.8	133	6	US-10-498-026-82	Sequence 82, Appl	484	73	2.8	281	7	US-11-087-099-8404	Sequence 8404, App
411	73.5	2.8	365	7	US-11-096-568A-32170	Sequence 32170, A	485	73	2.8	300	7	US-11-096-568A-3211	Sequence 3211, App
412	73.5	2.8	366	7	US-11-096-568A-32169	Sequence 32169, A	486	73	2.8	300	7	US-11-096-568A-3213	Sequence 3213, App
413	73.5	2.8	370	7	US-11-096-568A-32168	Sequence 32168, A	487	73	2.8	307	7	US-11-087-099-3841	Sequence 3841, App
414	73.5	2.8	372	7	US-11-087-099-7262	Sequence 7262, App	488	73	2.8	308	7	US-11-096-568A-3210	Sequence 3210, App
415	73.5	2.8	425	7	US-11-087-099-2394	Sequence 2294, App	489	73	2.8	350	7	US-11-096-568A-32434	Sequence 32434, A
416	73.5	2.8	437	7	US-11-087-099-8146	Sequence 8146, App	490	73	2.8	369	7	US-11-087-099-5887	Sequence 5887, App
418	73.5	2.8	478	6	US-10-973-115B-138	Sequence 138, App	491	73	2.8	384	7	US-11-129-143-77	Sequence 77, Appl
419	73.5	2.8	478	7	US-11-174-150-27	Sequence 27, Appl	492	73	2.8	388	7	US-11-087-099-1415	Sequence 1415, App
420	73.5	2.8	510	7	US-11-096-568A-5875	Sequence 5875, App	493	73	2.8	400	6	US-10-467-657-2702	Sequence 2702, App
421	73.5	2.8	513	6	US-10-485-517-160	Sequence 160, App	494	73	2.8	420	6	US-10-858-730-78	Sequence 78, Appl
422	73.5	2.8	538	7	US-11-087-099-2454	Sequence 2454, App	495	73	2.8	459	6	US-10-793-626-1246	Sequence 1246, App
423	73.5	2.8	541	7	US-11-096-568A-14917	Sequence 14917, A	496	73	2.8	459	6	US-10-793-626-2554	Sequence 2554, App
424	73.5	2.8	561	7	US-11-096-568A-5874	Sequence 5874, App	497	73	2.8	471	7	US-11-096-686-11229	Sequence 11229, App
425	73.5	2.8	585	6	US-10-793-626-2124	Sequence 2124, App	498	73	2.8	506	6	US-10-873-528-80	Sequence 80, Appl
426	73.5	2.8	613	7	US-11-096-568A-5873	Sequence 5873, App	499	73	2.8	516	7	US-11-096-568A-14918	Sequence 14918, A
427	73.5	2.8	661	7	US-11-072-512-2389	Sequence 2389, App	500	73	2.8	547	6	US-10-510-386-166	Sequence 166, App
428	73.5	2.8	1015	7	US-11-203-251A-82	Sequence 82, Appl	501	73	2.8	547	6	US-10-510-386-224	Sequence 224, App
429	73.5	2.8	1026	7	US-11-072-512-2509	Sequence 2509, App	502	73	2.8	548	7	US-11-119-769-3	Sequence 3, Appl
430	73.5	2.8	1037	7	US-11-203-251A-81	Sequence 81, Appl	503	73	2.8	627	6	US-10-467-657-5432	Sequence 5432, App
431	73.5	2.8	1112	7	US-11-096-568A-33821	Sequence 33821, A	504	73	2.8	680	7	US-11-096-568A-33439	Sequence 33439, A
432	73.5	2.8	1113	7	US-11-096-568A-33820	Sequence 33820, A	505	73	2.8	709	6	US-10-519-238-3	Sequence 3, Appl
433	73.5	2.8	1115	7	US-11-096-568A-33819	Sequence 33819, A	506	73	2.8	709	6	US-10-973-115B-202	Sequence 33438, A
434	73.5	2.8	1140	6	US-10-858-730-208	Sequence 208, App	507	73	2.8	717	7	US-11-096-568A-33437	Sequence 33437, A
435	73.5	2.8	1177	7	US-11-115-639-25	Sequence 25, Appl	508	73	2.8	738	7	US-11-096-568A-10734	Sequence 10734, A
436	73.5	2.8	1366	7	US-11-169-041-174	Sequence 174, App	509	73	2.8	748	7	US-11-098-686-10734	Sequence 10734, A
437	73.5	2.8	2640	7	US-11-087-099-9331	Sequence 9331, App	510	73	2.8	749	7	US-11-098-686-10505	Sequence 10505, A
438	73.5	2.8	2712	7	US-11-004-399-1736	Sequence 1736, App	511	73	2.8	765	7	US-11-087-099-6342	Sequence 6342, App
439	73	2.8	249	6	US-10-793-626-2294	Sequence 2294, App	512	73	2.8	814	7	US-11-124-368A-186	Sequence 186, App
440	73	2.8	269	6	US-10-793-626-1538	Sequence 1538, App	513	73	2.8	814	7	US-11-087-099-3696	Sequence 3696, App
441	73	2.8	324	7	US-11-087-099-10913	Sequence 10913, A	514	73	2.8	893	7	US-11-087-099-3696	Sequence 3696, App
442	73	2.8	342	7	US-11-087-099-3375	Sequence 3375, App	515	73	2.8	922	6	US-11-072-512-2694	Sequence 2694, App
443	73	2.8	344	7	US-11-087-099-6649	Sequence 6649, App	516	73	2.8	952	6	US-10-330-773-709	Sequence 709, App
444	73	2.8	362	7	US-11-087-099-606	Sequence 606, App	517	73	2.8	1048	6	US-10-392-234A-14	Sequence 14, Appl
445	73	2.8	372	7	US-11-096-568A-9495	Sequence 9495, App	518	73	2.8	1148	7	US-11-110-082-29	Sequence 29, Appl
446	73	2.8	378	7	US-11-096-568A-9494	Sequence 9494, App	519	73	2.8	1148	7	US-11-050-857-940	Sequence 940, App
447	73	2.8	379	7	US-11-096-568A-9493	Sequence 9493, App	520	73	2.8	1881	6	US-11-040-472-8	Sequence 8, Appl
448	73	2.8	389	7	US-11-096-568A-19737	Sequence 19737, App	521	73	2.8	2351	6	US-10-995-561-608	Sequence 608, App
449	73	2.8	396	7	US-11-096-568A-19736	Sequence 19736, A	522	73	2.8	2351	6	US-11-115-639-31	Sequence 31, Appl
450	73	2.8	398	7	US-11-087-099-10947	Sequence 10947, A	523	73	2.8	2890	7	US-11-115-639-32	Sequence 32, Appl
451	73	2.8	408	7	US-11-098-686-10559	Sequence 10559, A	524	73	2.8	2890	7	US-11-115-639-33	Sequence 33, Appl
452	73	2.8	409	7	US-11-098-686-10559	Sequence 10559, A	525	73	2.7	205	7	US-11-238-936-8	Sequence 8, Appl
453	73	2.8	448	7	US-11-096-568A-19735	Sequence 19735, A	526	73	2.7	256	7	US-11-055-822-1140	Sequence 1140, App
454	73	2.8	482	7	US-11-087-099-10082	Sequence 10082, A	527	73	2.7	256	7	US-11-124-291-2	Sequence 2, Appl
455	73	2.8	665	7	US-11-098-686-11344	Sequence 11344, A	528	73	2.7	319	6	US-10-330-773-593	Sequence 593, App
456	73	2.8	680	6	US-10-467-657-2008	Sequence 2008, App	529	73	2.7	327	7	US-11-087-099-7741	Sequence 7741, App
457	73	2.8	686	7	US-11-077-619-46	Sequence 46, Appl	530	73	2.7	344	7	US-11-096-568A-6342	Sequence 6342, App
458	73	2.8	733	6	US-10-467-657-5858	Sequence 5858, App	531	73	2.7	352	7	US-11-131-263-38	Sequence 38, Appl
459	73	2.8	770	7	US-11-070-627-5	Sequence 5, Appl	532	73	2.7	362	7	US-11-087-099-9573	Sequence 9573, App
460	73	2.8	802	7	US-11-087-099-6978	Sequence 6978, App	533	73	2.7	381	7	US-11-087-099-6112	Sequence 6112, App
461	73	2.8	946	7	US-11-096-568A-23105	Sequence 23105, A	534	73	2.7	421	7	US-11-055-822-658	Sequence 658, App
462	73	2.8	959	7	US-11-096-568A-23104	Sequence 23104, A	535	73	2.7	421	7	US-11-087-099-9582	Sequence 9582, App
463	73	2.8	966	7	US-11-096-568A-23103	Sequence 23103, A	536	73	2.7	511	7	US-11-055-822-698	Sequence 698, App
464	73	2.8	1177	7	US-11-115-639-22	Sequence 22, Appl	537	73	2.7	515	7	US-11-087-099-2320	Sequence 2320, App
465	73	2.8	1177	7	US-11-115-639-24	Sequence 24, Appl	538	73	2.7	586	7	US-11-072-512-3411	Sequence 3411, App
466	73	2.8	1177	7	US-11-115-639-26	Sequence 26, Appl	539	73	2.7	608	7	US-11-087-099-3204	Sequence 3204, App
467	73	2.8	1177	7	US-11-115-639-27	Sequence 27, Appl	540	73	2.7	691	7	US-11-096-568A-27660	Sequence 27660, A
468	73	2.8	1177	7	US-11-115-639-28	Sequence 28, Appl	541	73	2.7	718	7	US-11-096-568A-27659	Sequence 27659, A
469	73	2.8	1177	7	US-11-115-639-30	Sequence 30, Appl	542	73	2.7	739	7	US-11-096-568A-27658	Sequence 27658, A
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544	72	2.7	784	6	US-10-517-939-324	Sequence 324, App	618	71	2.7	461	7	US-11-087-099-2520	Sequence 2520, Ap
545	72	2.7	846	6	US-11-096-568A-30404	Sequence 30404, A	619	71	2.7	464	7	US-11-096-568A-10223	Sequence 10223, A
546	72	2.7	861	6	US-10-467-657-1286	Sequence 1286, Ap	620	71	2.7	467	7	US-11-087-099-1606	Sequence 1606, Ap
547	72	2.7	871	7	US-11-087-099-6053	Sequence 6053, A	621	71	2.7	469	7	US-11-096-568A-23082	Sequence 23082, A
548	72	2.7	873	7	US-11-087-099-6043	Sequence 6043, Ap	622	71	2.7	478	7	US-11-096-568A-23092	Sequence 23092, A
549	72	2.7	1045	7	US-11-096-568A-30402	Sequence 30402, A	623	71	2.7	491	7	US-11-096-568A-23081	Sequence 23081, A
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551	72	2.7	1084	7	US-11-202-268-12	Sequence 12, Appli	625	71	2.7	555	6	US-10-821-234-1015	Sequence 1015, Ap
552	72	2.7	1097	6	US-10-501-035-285	Sequence 285, App	626	71	2.7	567	6	US-11-167-856-30	Sequence 30, Appli
553	72	2.7	1194	7	US-11-000-463-249	Sequence 249, App	627	71	2.7	602	7	US-10-493-909-51	Sequence 51, Appli
554	72	2.7	1458	7	US-11-096-274-2	Sequence 2, Appli	628	71	2.7	607	7	US-11-087-099-3733	Sequence 3733, Ap
555	72	2.7	2228	7	US-11-124-367A-270	Sequence 270, App	629	71	2.7	611	6	US-10-467-657-4656	Sequence 4656, Ap
556	72	2.7	3073	7	US-11-143-980-50	Sequence 50, Appli	630	71	2.7	629	7	US-11-232-406A-24	Sequence 24, Appli
557	72	2.7	3841	7	US-11-124-367A-272	Sequence 272, Appli	631	71	2.7	691	7	US-11-098-686-11189	Sequence 11189, A
558	71.5	2.7	131	6	US-10-498-026-75	Sequence 75, Appli	632	71	2.7	702	6	US-10-510-386-214	Sequence 214, App
559	71.5	2.7	200	7	US-11-087-099-8856	Sequence 8856, Ap	633	71	2.7	715	6	US-11-087-099-808	Sequence 808, App
560	71.5	2.7	214	7	US-11-072-512-3061	Sequence 3061, Ap	634	71	2.7	745	6	US-10-858-730-224	Sequence 224, App
561	71.5	2.7	246	7	US-11-096-568A-20912	Sequence 20912, A	635	71	2.7	745	7	US-11-055-822-226	Sequence 226, App
562	71.5	2.7	252	7	US-11-096-568A-6920	Sequence 6920, Ap	636	71	2.7	745	7	US-11-055-822-714	Sequence 714, App
563	71.5	2.7	261	7	US-11-096-568A-10852	Sequence 10852, A	637	71	2.7	745	7	US-11-055-822-756	Sequence 756, App
564	71.5	2.7	266	7	US-11-096-568A-10851	Sequence 10851, A	638	71	2.7	745	7	US-11-168-476-2	Sequence 2, Appli
565	71.5	2.7	299	7	US-11-096-568A-10850	Sequence 10850, A	639	71	2.7	751	7	US-11-114-906-8	Sequence 8, Appli
566	71.5	2.7	310	7	US-11-074-176-342	Sequence 342, App	640	71	2.7	761	6	US-10-517-939-36	Sequence 36, Appli
567	71.5	2.7	311	7	US-11-087-099-1905	Sequence 1905, Ap	641	71	2.7	764	7	US-11-114-906-6	Sequence 6, Appli
568	71.5	2.7	321	7	US-11-074-176-154	Sequence 154, App	642	71	2.7	765	7	US-11-087-099-3721	Sequence 3721, Ap
569	71.5	2.7	333	7	US-11-087-099-283	Sequence 283, App	643	71	2.7	765	7	US-11-087-099-4098	Sequence 4098, Ap
570	71.5	2.7	355	7	US-11-087-099-4821	Sequence 4821, Ap	644	71	2.7	765	7	US-11-087-099-11145	Sequence 11145, A
571	71.5	2.7	362	7	US-11-087-099-12235	Sequence 12235, A	645	71	2.7	776	7	US-11-114-906-22	Sequence 22, Appli
572	71.5	2.7	368	7	US-11-087-099-4023	Sequence 4023, Ap	646	71	2.7	789	7	US-11-114-906-22	Sequence 24, Appli
573	71.5	2.7	373	7	US-11-087-099-412	Sequence 412, App	647	71	2.7	800	7	US-11-087-099-6888	Sequence 6888, Ap
574	71.5	2.7	387	7	US-11-096-568A-26977	Sequence 26977, A	648	71	2.7	838	7	US-11-114-906-40	Sequence 40, Appli
575	71.5	2.7	407	7	US-11-111-239-12	Sequence 12, Appli	649	71	2.7	851	7	US-11-114-906-38	Sequence 38, Appli
576	71.5	2.7	405	7	US-11-087-099-3737	Sequence 3737, Ap	650	71	2.7	863	7	US-11-114-906-32	Sequence 32, Appli
577	71.5	2.7	409	7	US-11-096-568A-7898	Sequence 7898, Ap	651	71	2.7	864	7	US-11-114-906-4	Sequence 4, Appli
578	71.5	2.7	440	6	US-10-821-234-1330	Sequence 1330, Ap	652	71	2.7	876	7	US-11-114-906-2	Sequence 2, Appli
579	71.5	2.7	441	7	US-11-096-568A-25563	Sequence 25563, A	653	71	2.7	876	7	US-11-114-906-30	Sequence 30, Appli
580	71.5	2.7	443	7	US-11-096-568A-7897	Sequence 7897, Ap	654	71	2.7	889	7	US-11-114-906-20	Sequence 20, Appli
581	71.5	2.7	456	7	US-11-096-568A-7896	Sequence 7896, Ap	655	71	2.7	895	7	US-11-114-906-18	Sequence 18, Appli
582	71.5	2.7	460	7	US-11-096-568A-20827	Sequence 20827, A	656	71	2.7	901	7	US-11-072-512-2920	Sequence 2920, Ap
583	71.5	2.7	484	6	US-11-087-099-8314	Sequence 8314, Ap	657	71	2.7	908	6	US-10-467-657-1070	Sequence 1070, Ap
584	71.5	2.7	490	6	US-10-467-657-7280	Sequence 7280, Ap	658	71	2.7	911	6	US-10-858-730-9	Sequence 9, Appli
585	71.5	2.7	490	6	US-10-467-657-8158	Sequence 8158, Ap	659	71	2.7	951	7	US-11-114-906-36	Sequence 36, Appli
586	71.5	2.7	500	6	US-10-524-647-20	Sequence 20, Appli	660	71	2.7	957	7	US-11-114-906-34	Sequence 34, Appli
587	71.5	2.7	500	6	US-10-524-972-20	Sequence 20, Appli	661	71	2.7	959	6	US-10-453-372-1074	Sequence 1074, Ap
588	71.5	2.7	500	6	US-10-541-513-8	Sequence 8, Appli	662	71	2.7	976	7	US-11-114-906-28	Sequence 28, Appli
589	71.5	2.7	513	7	US-11-087-099-3462	Sequence 3462, Ap	663	71	2.7	982	7	US-11-114-906-26	Sequence 26, Appli
590	71.5	2.7	557	6	US-10-512-109-9	Sequence 9, Appli	664	71	2.7	989	6	US-10-821-234-975	Sequence 975, App
591	71.5	2.7	562	7	US-11-098-686-11416	Sequence 11416, A	665	71	2.7	1008	7	US-11-055-822-312	Sequence 312, App
592	71.5	2.7	641	7	US-11-090-617-690	Sequence 690, App	666	71	2.7	1024	7	US-11-145-631-2	Sequence 2, Appli
593	71.5	2.7	678	7	US-11-102-240-34	Sequence 34, Appli	667	71	2.7	1063	6	US-10-453-372-1066	Sequence 1066, Ap
594	71.5	2.7	678	7	US-11-103-195-34	Sequence 34, Appli	668	71	2.7	1070	7	US-11-000-463-721	Sequence 721, App
595	71.5	2.7	760	6	US-10-821-234-1141	Sequence 1141, Ap	669	71	2.7	1165	7	US-11-197-380-6	Sequence 6, Appli
596	71.5	2.7	770	7	US-11-024-959-358	Sequence 358, App	670	71	2.7	1183	7	US-11-115-639-15	Sequence 15, Appli
597	71.5	2.7	770	7	US-11-087-099-4345	Sequence 4345, Ap	671	71	2.7	1227	6	US-10-793-626-96	Sequence 96, Appli
598	71.5	2.7	778	7	US-11-087-099-4580	Sequence 4580, Ap	672	71	2.7	1316	7	US-11-091-643-4	Sequence 4, Appli
599	71.5	2.7	869	7	US-11-087-099-4580	Sequence 4580, Ap	673	71	2.7	1336	6	US-10-912-971-10	Sequence 10, Appli
600	71.5	2.7	886	6	US-10-821-234-1390	Sequence 1390, Ap	674	71	2.7	1303	6	US-10-453-372-1080	Sequence 1080, Ap
601	71.5	2.7	926	7	US-11-232-405A-34	Sequence 34, Appli	675	71	2.7	3361	6	US-10-453-372-1082	Sequence 1082, Ap
602	71.5	2.7	980	7	US-11-064-246-10	Sequence 10, Appli	676	71	2.7	188	6	US-10-510-413-4	Sequence 4, Appli
603	71.5	2.7	980	7	US-11-169-041-141	Sequence 141, App	677	70.5	2.7	189	6	US-10-510-413-3	Sequence 3, Appli
604	71.5	2.7	1089	7	US-11-087-099-7653	Sequence 7653, Ap	678	70.5	2.7	244	7	US-11-087-099-11631	Sequence 11631, A
605	71.5	2.7	1124	7	US-11-087-099-4425	Sequence 4425, Ap	679	70.5	2.7	325	6	US-10-873-528-141	Sequence 141, App
606	71.5	2.7	1244	6	US-10-531-036-36	Sequence 36, Appli	680	70.5	2.7	325	6	US-10-510-413-2	Sequence 2, Appli
607	71.5	2.7	1285	7	US-11-206-071-2	Sequence 2, Appli	681	70.5	2.7	326	6	US-10-510-413-1	Sequence 1, Appli
608	71.5	2.7	244	7	US-11-131-263-41	Sequence 41, Appli	682	70.5	2.7	360	6	US-11-096-568A-23854	Sequence 23854, A
609	71	2.7	307	6	US-10-878-556A-21	Sequence 21, Appli	683	70.5	2.7	364	7	US-11-087-099-11525	Sequence 11525, A
610	71	2.7	339	6	US-10-467-657-4318	Sequence 4318, Ap	684	70.5	2.7	368	6	US-11-793-626-742	Sequence 742, App
611	71	2.7	389	7	US-11-207-626A-39	Sequence 39, Appli	685	70.5	2.7	370	6	US-11-127-817-22	Sequence 22, Appli
612	71	2.7	414	7	US-11-096-568A-10224	Sequence 10224, A	686	70.5	2.7	372	7	US-11-096-568A-1609	Sequence 1609, Ap
613	71	2.7	426	7	US-11-031-206-160	Sequence 160, App	687	70.5	2.7	380	7	US-11-096-568A-23853	Sequence 23853, A
614	71	2.7	437	6	US-10-454-437-84	Sequence 84, Appli	688	70.5	2.7	404	6	US-10-793-626-1130	Sequence 1130, Ap
615	71	2.7	444	7	US-11-096-568A-8056	Sequence 8056, Ap	689	70.5	2.7	423	6	US-10-467-657-6536	Sequence 6536, Ap
616	71	2.7	448	7	US-11-096-568A-8055	Sequence 8055, Ap	690	70.5	2.7	456	7	US-11-087-099-11920	Sequence 11920, A
617	71	2.7	456	7	US-11-096-568A-29093	Sequence 29093, A							

691	70.5	2.7	462	7	US-11-096-568A-25994	Sequence 25994, A	764	70	2.7	715	6	US-10-467-657-3672	Sequence 3672, Ap
692	70.5	2.7	470	7	US-11-096-568A-25993	Sequence 25993, A	765	70	2.7	716	6	US-11-089-551A-47	Sequence 47, Appl
693	70.5	2.7	479	7	US-11-096-568A-6801	Sequence 6801, Ap	766	70	2.7	717	6	US-10-523-038-39	Sequence 39, Appl
694	70.5	2.7	490	7	US-11-096-568A-6800	Sequence 6800, Ap	767	70	2.7	718	7	US-11-108-172-1127	Sequence 1127, Ap
695	70.5	2.7	514	7	US-11-096-568A-6799	Sequence 6799, Ap	768	70	2.7	719	7	US-11-098-686-10182	Sequence 10182, A
696	70.5	2.7	516	7	US-11-096-568A-25273	Sequence 25273, A	769	70	2.7	720	7	US-11-087-099-1706	Sequence 1706, Ap
697	70.5	2.7	517	7	US-11-096-568A-25992	Sequence 25992, A	770	70	2.7	721	6	US-10-467-657-5230	Sequence 5230, Ap
698	70.5	2.7	541	7	US-11-010-239-95	Sequence 95, Appl	771	70	2.7	722	6	US-10-615-668-5	Sequence 5, Appl
699	70.5	2.7	544	7	US-11-096-568A-1608	Sequence 1608, Ap	772	70	2.7	723	7	US-11-115-639-46	Sequence 46, Appl
700	70.5	2.7	549	7	US-11-096-568A-4707	Sequence 4707, Ap	773	70	2.7	724	7	US-11-115-639-47	Sequence 47, Appl
701	70.5	2.7	557	7	US-11-096-568A-4706	Sequence 4706, Ap	774	70	2.7	725	7	US-11-115-639-48	Sequence 48, Appl
702	70.5	2.7	566	7	US-11-072-512-3580	Sequence 3580, Ap	775	70	2.7	726	6	US-10-821-234-1497	Sequence 1497, Ap
703	70.5	2.7	585	7	US-11-096-568A-4705	Sequence 4705, Ap	776	70	2.7	727	6	US-11-192-967-4	Sequence 4, Appl
704	70.5	2.7	588	7	US-11-096-568A-1607	Sequence 1607, Ap	777	70	2.7	728	7	US-11-193-715-4	Sequence 2, Appl
705	70.5	2.7	623	6	US-10-793-626-1068	Sequence 1068, Ap	778	70	2.7	729	6	US-10-513-786-2	Sequence 14, Appl
706	70.5	2.7	638	7	US-11-077-619-28	Sequence 28, Appl	779	70	2.7	730	7	US-11-186-999-14	Sequence 16, Appl
707	70.5	2.7	664	7	US-11-124-367A-439	Sequence 439, Ap	780	70	2.7	731	7	US-11-186-999-16	Sequence 8, Appl
708	70.5	2.7	667	7	US-11-124-367A-440	Sequence 440, Ap	781	70	2.7	732	7	US-11-186-999-8	Sequence 10, Appl
709	70.5	2.7	688	6	US-10-878-556A-132	Sequence 132, Ap	782	70	2.7	733	7	US-11-186-999-10	Sequence 1, Appl
710	70.5	2.7	737	7	US-11-152-366-28	Sequence 28, Appl	783	70	2.7	734	6	US-10-513-786-1	Sequence 141, App
711	70.5	2.7	748	7	US-11-072-512-2336	Sequence 2336, Ap	784	70	2.7	735	7	US-11-052-554A-141	Sequence 29322, A
712	70.5	2.7	760	6	US-10-858-730-76	Sequence 76, Appl	785	69.5	2.6	736	7	US-11-096-568A-29322	Sequence 49, Appl
713	70.5	2.7	763	7	US-11-072-512-2512	Sequence 2512, Ap	786	69.5	2.6	737	6	US-10-000-997-49	Sequence 29321, A
714	70.5	2.7	837	7	US-11-087-099-9370	Sequence 9370, Ap	787	69.5	2.6	738	7	US-11-096-568A-29320	Sequence 29320, A
715	70.5	2.7	901	6	US-10-793-626-342	Sequence 342, Ap	788	69.5	2.6	739	6	US-10-467-657-216	Sequence 216, App
716	70.5	2.7	1001	6	US-10-467-9628-81	Sequence 81, Appl	789	69.5	2.6	740	6	US-10-467-657-7912	Sequence 7912, Ap
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720	70.5	2.7	1700	6	US-10-453-372-398	Sequence 398, Ap	793	69.5	2.6	744	7	US-11-087-099-6824	Sequence 4296, Ap
721	70.5	2.7	1700	6	US-10-453-372-412	Sequence 412, Ap	794	69.5	2.6	745	6	US-11-096-568A-4296	Sequence 2794, Ap
722	70.5	2.7	1700	6	US-10-453-372-414	Sequence 414, Ap	795	69.5	2.6	746	6	US-10-793-626-2794	Sequence 2794, Ap
723	70.5	2.7	1700	6	US-10-453-372-416	Sequence 416, Ap	796	69.5	2.6	747	6	US-10-793-626-2874	Sequence 2874, Ap
724	70.5	2.7	1700	6	US-10-453-372-418	Sequence 418, Ap	797	69.5	2.6	748	7	US-11-232-405A-26	Sequence 26, Appl
725	70.5	2.7	2314	7	US-11-097-728-2	Sequence 2, Appl	798	69.5	2.6	749	7	US-11-087-099-2943	Sequence 2943, Ap
726	70.5	2.7	2353	7	US-11-097-728-6	Sequence 6, Appl	799	69.5	2.6	750	7	US-11-087-099-3427	Sequence 3427, Ap
727	70	2.7	246	7	US-11-055-822-382	Sequence 382, Ap	800	69.5	2.6	751	7	US-11-096-568A-11540	Sequence 11540, A
728	70	2.7	265	7	US-11-077-619-124	Sequence 124, Ap	801	69.5	2.6	752	6	US-11-096-568A-11539	Sequence 11539, A
729	70	2.7	266	6	US-10-995-561-544	Sequence 544, Ap	802	69.5	2.6	753	6	US-10-873-528-48	Sequence 48, Appl
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731	70	2.7	302	7	US-11-112-882-2	Sequence 2, Appl	804	69.5	2.6	755	7	US-11-112-882-25	Sequence 25, Appl
732	70	2.7	315	7	US-11-096-568A-23470	Sequence 23470, A	805	69.5	2.6	756	6	US-10-511-989-176	Sequence 176, Ap
733	70	2.7	322	6	US-11-096-568A-3061	Sequence 3061, Ap	806	69.5	2.6	757	6	US-10-467-657-3136	Sequence 3136, Ap
734	70	2.7	326	6	US-10-485-517-306	Sequence 306, Ap	807	69.5	2.6	758	6	US-10-467-657-3136	Sequence 5680, Ap
735	70	2.7	330	7	US-11-074-176-174	Sequence 174, Ap	808	69.5	2.6	759	7	US-11-096-568A-31458	Sequence 31458, A
736	70	2.7	346	7	US-11-087-099-9022	Sequence 9022, Ap	809	69.5	2.6	760	6	US-10-973-115B-452	Sequence 452, App
737	70	2.7	351	7	US-11-096-568A-19772	Sequence 19772, A	811	69.5	2.6	761	6	US-10-055-877-134	Sequence 134, App
738	70	2.7	361	7	US-11-129-143-60	Sequence 60, Appl	812	69.5	2.6	762	6	US-11-096-568A-5679	Sequence 5679, Ap
739	70	2.7	365	7	US-11-031-206-164	Sequence 164, Ap	813	69.5	2.6	763	7	US-11-087-099-5764	Sequence 5764, Ap
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741	70	2.7	368	7	US-11-096-568A-22315	Sequence 22315, A	815	69.5	2.6	765	7	US-11-096-568A-31886	Sequence 31886, A
742	70	2.7	372	7	US-11-096-568A-3059	Sequence 3059, Ap	816	69.5	2.6	766	7	US-11-096-568A-31885	Sequence 31885, A
743	70	2.7	372	7	US-11-096-568A-3062	Sequence 3062, Ap	817	69.5	2.6	767	7	US-11-087-099-7129	Sequence 7129, Ap
744	70	2.7	392	7	US-11-096-568A-22314	Sequence 22314, A	818	69.5	2.6	768	7	US-11-096-568A-29310	Sequence 29310, A
745	70	2.7	401	7	US-11-096-568A-19771	Sequence 19771, A	819	69.5	2.6	769	7	US-11-096-568A-29649	Sequence 29649, A
746	70	2.7	420	6	US-10-520-820-14	Sequence 14, Appl	820	69.5	2.6	770	7	US-11-096-568A-29309	Sequence 29309, A
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749	70	2.7	427	6	US-10-513-639-20	Sequence 20, Appl	823	69.5	2.6	773	7	US-11-096-568A-29308	Sequence 29308, A
750	70	2.7	438	6	US-10-510-386-18	Sequence 18, Appl	824	69.5	2.6	774	7	US-11-096-568A-29308	Sequence 29308, A
751	70	2.7	449	7	US-11-096-568A-22313	Sequence 22313, A	825	69.5	2.6	775	7	US-11-009-063-26	Sequence 26, Appl
752	70	2.7	480	6	US-10-821-234-886	Sequence 886, Ap	826	69.5	2.6	776	7	US-11-009-063-31	Sequence 31, Appl
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754	70	2.7	484	7	US-11-096-568A-6009	Sequence 6009, Ap	828	69.5	2.6	778	7	US-11-096-568A-30266	Sequence 30266, A
755	70	2.7	485	6	US-10-055-877-133	Sequence 133, Appl	829	69.5	2.6	779	7	US-11-072-512-3453	Sequence 3453, Ap
756	70	2.7	492	7	US-11-037-829A-12	Sequence 12, Appl	830	69.5	2.6	780	7	US-11-096-568A-34289	Sequence 34289, A
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758	70	2.7	536	7	US-11-096-568A-7210	Sequence 7210, Ap	832	69.5	2.6	782	7	US-11-096-568A-30265	Sequence 30265, A
759	70	2.7	582	7	US-11-096-568A-24623	Sequence 24623, A	833	69.5	2.6	783	7	US-11-096-568A-34288	Sequence 34288, A
760	70	2.7	611	7	US-11-082-389-436	Sequence 436, Ap	834	69.5	2.6	784	7	US-11-096-568A-31636	Sequence 31636, A
761	70	2.7	669	7	US-11-072-512-2373	Sequence 2373, Ap	835	69.5	2.6	785	7	US-11-096-568A-31635	Sequence 31635, A
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842	69.5	2.6	971	7	US-11-050-857-848	Sequence 848, App	916	68.5	2.6	341	6	US-10-793-626-3202	Sequence 3202, Ap
843	69.5	2.6	1009	7	US-11-050-857-852	Sequence 852, App	917	68.5	2.6	357	7	US-11-120-308-188	Sequence 188, App
844	69.5	2.6	1017	7	US-11-050-857-851	Sequence 851, App	918	68.5	2.6	360	7	US-11-087-099-11236	Sequence 11236, A
845	69.5	2.6	1021	7	US-11-050-857-847	Sequence 847, App	919	68.5	2.6	373	7	US-11-087-099-1860	Sequence 1660, Ap
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850	69.5	2.6	1065	7	US-11-050-857-845	Sequence 846, App	923	68.5	2.6	404	6	US-10-467-657-4274	Sequence 4274, Ap
851	69.5	2.6	1094	7	US-11-050-857-849	Sequence 849, App	924	68.5	2.6	419	7	US-11-096-568A-6011	Sequence 6011, Ap
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853	69.5	2.6	2385	6	US-10-510-941-8	Sequence 8, Appl	926	68.5	2.6	424	7	US-11-137-850-7	Sequence 7, Appl
854	69.5	2.6	2671	6	US-10-876-787-6	Sequence 6, Appl	927	68.5	2.6	424	7	US-11-137-850-9	Sequence 9, Appl
855	69.5	2.6	7102	7	US-11-143-980-48	Sequence 48, Appl	928	68.5	2.6	424	7	US-11-096-568A-5009	Sequence 5009, Ap
856	69	2.6	189	7	US-11-100-183-61	Sequence 61, Appl	929	68.5	2.6	424	7	US-11-096-568A-29788	Sequence 29788, A
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859	69	2.6	278	7	US-11-098-686-10534	Sequence 10534, A	932	68.5	2.6	434	7	US-11-168-637-10	Sequence 10, Appl
860	69	2.6	292	7	US-11-096-568A-8710	Sequence 8710, Ap	933	68.5	2.6	441	6	US-10-055-877-135	Sequence 135, App
861	69	2.6	297	6	US-10-793-626-2634	Sequence 2634, Ap	934	68.5	2.6	449	7	US-11-096-568A-5165	Sequence 5165, Ap
862	69	2.6	310	7	US-11-010-239-97	Sequence 97, Appl	935	68.5	2.6	457	7	US-11-096-568A-8445	Sequence 8445, Ap
863	69	2.6	315	6	US-10-878-556A-178	Sequence 178, App	936	68.5	2.6	457	7	US-11-096-568A-29787	Sequence 29787, A
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865	69	2.6	330	7	US-11-087-099-9762	Sequence 9762, Ap	938	68.5	2.6	488	7	US-11-194-246-325	Sequence 325, App
866	69	2.6	333	6	US-10-821-234-1036	Sequence 1036, Ap	939	68.5	2.6	488	7	US-11-087-099-303	Sequence 303, App
867	69	2.6	336	6	US-10-873-528-150	Sequence 150, App	940	68.5	2.6	514	6	US-10-793-626-2682	Sequence 2682, Ap
868	69	2.6	347	7	US-11-087-099-1882	Sequence 1882, Ap	941	68.5	2.6	521	6	US-10-793-626-1172	Sequence 1172, Ap
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870	69	2.6	359	7	US-11-087-099-6902	Sequence 6902, Ap	943	68.5	2.6	525	6	US-10-467-657-5462	Sequence 5462, Ap
871	69	2.6	364	7	US-11-087-099-11668	Sequence 11668, A	944	68.5	2.6	539	7	US-11-096-568A-28031	Sequence 28031, A
872	69	2.6	367	7	US-11-087-099-6821	Sequence 6821, Ap	945	68.5	2.6	554	6	US-11-096-568A-29786	Sequence 29786, A
873	69	2.6	373	7	US-11-087-099-7971	Sequence 7971, Ap	945	68.5	2.6	563	6	US-10-878-556A-135	Sequence 135, App
874	69	2.6	376	7	US-11-098-686-10379	Sequence 10379, A	947	68.5	2.6	563	7	US-11-072-175-241	Sequence 241, App
875	69	2.6	418	6	US-10-793-626-1288	Sequence 1288, Ap	948	68.5	2.6	603	7	US-11-087-099-1182	Sequence 1182, Ap
876	69	2.6	453	7	US-11-087-099-2716	Sequence 2716, Ap	949	68.5	2.6	619	6	US-10-986-553-2	Sequence 2, Appl
877	69	2.6	467	7	US-11-096-568A-12878	Sequence 12878, A	950	68.5	2.6	637	6	US-10-873-528-53	Sequence 53, Appl
878	69	2.6	470	6	US-10-793-626-1814	Sequence 1814, Ap	951	68.5	2.6	657	7	US-11-096-568A-28030	Sequence 28030, A
879	69	2.6	490	7	US-11-087-099-9104	Sequence 9104, Ap	952	68.5	2.6	692	7	US-11-052-554A-213	Sequence 213, App
880	69	2.6	492	7	US-11-072-512-3704	Sequence 3704, Ap	953	68.5	2.6	735	7	US-11-087-099-9167	Sequence 9167, Ap
881	69	2.6	493	6	US-10-995-561-611	Sequence 611, App	954	68.5	2.6	751	6	US-10-467-657-1418	Sequence 1418, Ap
882	69	2.6	500	7	US-11-264-026-2	Sequence 2, Appl	955	68.5	2.6	759	6	US-10-858-730-75	Sequence 75, Appl
883	69	2.6	502	7	US-11-087-099-3575	Sequence 3575, Ap	956	68.5	2.6	787	7	US-11-154-227-110	Sequence 110, App
884	69	2.6	507	7	US-11-033-039-96	Sequence 96, Appl	957	68.5	2.6	817	7	US-11-098-686-11041	Sequence 11041, A
885	69	2.6	519	7	US-11-096-568A-12877	Sequence 12877, A	958	68.5	2.6	821	6	US-10-912-580-9	Sequence 9, Appl
886	69	2.6	521	7	US-11-096-568A-12876	Sequence 12876, A	959	68.5	2.6	821	6	US-10-912-582-3	Sequence 3, Appl
887	69	2.6	527	7	US-11-010-239-83	Sequence 83, Appl	960	68.5	2.6	821	7	US-11-050-857-964	Sequence 964, App
888	69	2.6	533	7	US-11-096-568A-19881	Sequence 19881, A	961	68.5	2.6	821	7	US-11-043-806-484	Sequence 484, App
889	69	2.6	579	7	US-11-096-568A-19880	Sequence 19880, A	962	68.5	2.6	879	7	US-11-098-686-10290	Sequence 10290, A
890	69	2.6	611	6	US-10-330-773-852	Sequence 852, App	963	68.5	2.6	921	6	US-10-880-144-2	Sequence 2, Appl
891	69	2.6	615	7	US-11-172-145-6	Sequence 6, Appl	964	68.5	2.6	921	7	US-11-115-639-18	Sequence 18, Appl
892	69	2.6	617	7	US-11-172-145-8	Sequence 8, Appl	965	68.5	2.6	1183	7	US-11-115-639-18	Sequence 30749, A
893	69	2.6	656	7	US-11-096-568A-12827	Sequence 12827, A	966	68.5	2.6	1453	7	US-11-096-568A-11407	Sequence 11407, A
894	69	2.6	670	7	US-11-096-568A-12826	Sequence 12826, A	967	68.5	2.6	1467	6	US-10-507-956-1	Sequence 26738, A
895	69	2.6	690	7	US-11-052-554A-99	Sequence 99, Appl	968	68.5	2.6	1555	7	US-11-096-568A-30748	Sequence 30748, A
896	69	2.6	706	7	US-11-096-568A-31978	Sequence 31978, A	969	68.5	2.6	1556	7	US-11-096-568A-30747	Sequence 30747, A
897	69	2.6	710	7	US-11-151-601-23	Sequence 23, Appl	970	68.5	2.6	2432	6	US-10-821-234-899	Sequence 899, App
898	69	2.6	714	7	US-11-096-568A-31977	Sequence 31977, A	971	68.5	2.6	2472	7	US-11-203-806A-2	Sequence 2, Appl
899	69	2.6	715	7	US-11-150-845-14	Sequence 14, Appl	972	68	2.6	2483	7	US-11-186-993-2	Sequence 2, Appl
900	69	2.6	715	7	US-11-150-845-14	Sequence 14, Appl	973	68	2.6	198	7	US-11-096-568A-26738	Sequence 26738, A
901	69	2.6	752	6	US-10-793-626-348	Sequence 348, App	974	68	2.6	220	7	US-11-096-568A-868	Sequence 868, App
902	69	2.6	803	7	US-11-098-686-10461	Sequence 10461, A	975	68	2.6	256	7	US-11-087-099-10879	Sequence 10879, A
903	69	2.6	813	7	US-11-098-686-10839	Sequence 10839, A	976	68	2.6	292	7	US-11-087-099-5053	Sequence 5053, Ap
904	69	2.6	820	7	US-11-098-686-11029	Sequence 11029, A	977	68	2.6	304	6	US-10-793-626-1472	Sequence 1472, Ap
905	69	2.6	826	7	US-11-096-568A-31607	Sequence 31607, A	979	68	2.6	328	6	US-10-973-115B-326	Sequence 326, App
906	69	2.6	1065	6	US-10-793-626-1212	Sequence 1212, Ap	980	68	2.6	352	7	US-11-087-099-11864	Sequence 11864, A
907	69	2.6	1122	7	US-11-087-099-9404	Sequence 9404, Ap	981	68	2.6	365	7	US-11-087-099-2234	Sequence 2234, Ap
908	68.5	2.6	167	7	US-11-096-568A-22220	Sequence 22220, A	982	68	2.6	371	6	US-10-467-657-1926	Sequence 1926, Ap
909	68.5	2.6	221	7	US-11-087-099-5638	Sequence 5638, Ap	983	68	2.6	398	7	US-11-096-568A-26114	Sequence 26114, A
910	68.5	2.6	228	7	US-11-096-568A-21545	Sequence 21545, A	984	68	2.6	424	7	US-11-024-959-357	Sequence 357, App

985	68	2.6	425	6	US-10-995-561-616	Sequence 616, App	1058	67.5	2.6	484	7	US-11-096-568A-10302	Sequence 10302, A
986	68	2.6	428	7	US-11-074-176-344	Sequence 344, App	1059	67.5	2.6	495	7	US-11-096-568A-7940	Sequence 7940, App
987	68	2.6	433	7	US-11-074-176-162	Sequence 162, App	1060	67.5	2.6	562	7	US-11-072-512-2003	Sequence 2003, App
988	68	2.6	437	7	US-11-087-099-8579	Sequence 8579, App	1061	67.5	2.6	565	6	US-10-055-877-228	Sequence 228, App
989	68	2.6	453	7	US-11-098-686-10358	Sequence 10358, A	1062	67.5	2.6	652	7	US-11-096-568A-18260	Sequence 18260, A
990	68	2.6	454	7	US-11-096-568A-26113	Sequence 26113, A	1063	67.5	2.6	695	6	US-10-363-924-2	Sequence 2, Appl
991	68	2.6	456	7	US-11-072-513-1996	Sequence 1996, App	1064	67.5	2.6	732	6	US-10-954-468-51	Sequence 51, Appl
992	68	2.6	463	6	US-10-755-092-25	Sequence 25, Appl	1065	67.5	2.6	773	7	US-11-024-959-341	Sequence 341, App
993	68	2.6	467	7	US-11-090-439-33	Sequence 33, Appl	1066	67.5	2.6	778	7	US-11-096-568A-29888	Sequence 29888, A
994	68	2.6	467	7	US-11-096-568A-20365	Sequence 20365, A	1067	67.5	2.6	791	6	US-10-972-053-4	Sequence 4, Appl
995	68	2.6	473	7	US-11-087-099-10299	Sequence 10299, A	1068	67.5	2.6	803	7	US-11-096-568A-29887	Sequence 29887, A
996	68	2.6	474	6	US-10-523-503-20	Sequence 20, Appl	1069	67.5	2.6	813	6	US-10-509-950-1	Sequence 1, Appl
997	68	2.6	500	7	US-11-096-568A-27420	Sequence 27420, A	1070	67.5	2.6	843	6	US-10-501-035-362	Sequence 362, App
998	68	2.6	514	7	US-11-125-295-2	Sequence 2, Appl	1071	67.5	2.6	846	6	US-10-517-939-90	Sequence 90, Appl
999	68	2.6	514	7	US-11-072-512-3509	Sequence 3509, App	1072	67.5	2.6	879	7	US-11-124-367A-329	Sequence 329, App
1000	68	2.6	518	7	US-11-096-568A-17114	Sequence 17114, A	1073	67.5	2.6	884	6	US-10-878-556A-9	Sequence 9, Appl
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1002	68	2.6	587	7	US-11-096-568A-27418	Sequence 27418, A	1075	67.5	2.6	934	6	US-10-858-730-8	Sequence 8, Appl
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1004	68	2.6	690	7	US-11-052-554A-232	Sequence 232, App	1077	67.5	2.6	935	6	US-10-995-561-1013	Sequence 1013, App
1005	68	2.6	773	7	US-11-124-367A-505	Sequence 505, App	1078	67.5	2.6	970	6	US-10-954-468-52	Sequence 52, Appl
1006	68	2.6	773	7	US-11-124-367A-506	Sequence 506, App	1079	67.5	2.6	974	6	US-10-821-234-1152	Sequence 1152, App
1007	68	2.6	792	7	US-11-098-686-10439	Sequence 10439, A	1080	67.5	2.6	1007	6	US-10-329-258-23	Sequence 23, Appl
1008	68	2.6	821	7	US-11-087-227-90	Sequence 90, Appl	1081	67.5	2.6	1027	6	US-10-793-626-3106	Sequence 3106, App
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1013	68	2.6	883	7	US-11-074-176-88	Sequence 88, Appl	1086	67.5	2.6	1178	7	US-11-115-639-9	Sequence 9, Appl
1014	68	2.6	1046	7	US-11-120-308-186	Sequence 186, App	1087	67.5	2.6	1178	7	US-11-115-639-10	Sequence 10, Appl
1015	68	2.6	1822	7	US-11-169-041-193	Sequence 193, App	1088	67.5	2.6	1178	7	US-11-115-639-11	Sequence 11, Appl
1016	68	2.6	1828	6	US-10-480-330-30	Sequence 30, Appl	1089	67.5	2.6	1178	7	US-11-115-639-12	Sequence 12, Appl
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1018	68	2.6	1966	6	US-10-480-330-6	Sequence 6, Appl	1091	67.5	2.6	2801	6	US-11-115-639-14	Sequence 14, Appl
1019	68	2.6	1966	6	US-10-480-330-8	Sequence 8, Appl	1092	67.5	2.6	3482	7	US-11-087-099-2068	Sequence 2068, App
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1021	68	2.6	1966	6	US-10-480-330-12	Sequence 12, Appl	1094	67	2.6	200	7	US-11-179-977-18	Sequence 18, App
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1023	68	2.6	1966	6	US-10-480-330-16	Sequence 16, Appl	1096	67	2.6	269	7	US-11-194-246-328	Sequence 328, App
1024	68	2.6	1966	6	US-10-480-330-18	Sequence 18, Appl	1097	67	2.6	287	7	US-11-055-822-102	Sequence 102, App
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1026	68	2.6	1966	6	US-10-480-330-22	Sequence 22, Appl	1099	67	2.6	303	7	US-11-072-512-2862	Sequence 2862, App
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1028	68	2.6	1966	6	US-10-480-330-26	Sequence 26, Appl	1101	67	2.6	325	6	US-10-467-657-14	Sequence 14, Appl
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1031	68	2.6	2535	7	US-11-120-925-3	Sequence 3, Appl	1104	67	2.6	336	6	US-10-821-234-1183	Sequence 1183, App
1032	68	2.6	2804	7	US-11-186-284-26	Sequence 26, App	1105	67	2.6	343	7	US-11-096-568A-32625	Sequence 32625, A
1033	68	2.6	3063	7	US-11-186-284-26	Sequence 26, App	1106	67	2.6	348	7	US-11-096-568A-21734	Sequence 21734, A
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1035	68	2.6	3377	7	US-11-124-367A-271	Sequence 271, App	1108	67	2.6	374	6	US-10-954-468-40	Sequence 40, Appl
1036	67.5	2.6	178	7	US-11-087-099-5781	Sequence 5781, App	1109	67	2.6	374	7	US-11-207-628A-21	Sequence 21, Appl
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1040	67.5	2.6	345	7	US-11-096-568A-31638	Sequence 31638, A	1113	67	2.6	388	7	US-11-096-568A-1290	Sequence 1290, App
1041	67.5	2.6	355	7	US-11-055-822-162	Sequence 162, App	1114	67	2.6	395	6	US-10-467-657-4484	Sequence 4484, App
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1044	67.5	2.6	364	7	US-11-087-099-9418	Sequence 9418, App	1117	67	2.6	409	7	US-11-087-099-11732	Sequence 21732, A
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1047	67.5	2.6	391	7	US-11-129-143-75	Sequence 75, Appl	1120	67	2.6	422	7	US-11-024-959-497	Sequence 497, App
1048	67.5	2.6	407	7	US-11-087-099-6205	Sequence 6205, App	1121	67	2.6	425	6	US-10-793-626-110	Sequence 110, App
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1054	67.5	2.6	458	7	US-11-183-914-11	Sequence 11, Appl	1127	67	2.6	451	6	US-10-467-657-366	Sequence 366, App
1055	67.5	2.6	466	7	US-11-096-568A-7942	Sequence 7942, App	1128	67	2.6	459	6	US-10-793-626-2462	Sequence 2462, App
1056	67.5	2.6	472	7	US-11-096-568A-7941	Sequence 7941, App	1129	67	2.6	463	6	US-10-954-468-38	Sequence 38, Appl
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1133	67	2.6	473	7	US-11-087-099-7361	Sequence 7361, Ap	1207	66.5	2.5	373	7	US-11-087-099-2531	Sequence 2531, Ap
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1135	67	2.6	486	7	US-11-077-619-112	Sequence 112, App	1209	66.5	2.5	378	7	US-11-069-642-24	Sequence 24, Appl
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1137	67	2.6	491	7	US-11-096-568A-8029	Sequence 8029, Ap	1211	66.5	2.5	390	7	US-11-219-282-13	Sequence 13, Appl
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1139	67	2.6	509	7	US-11-146-428-77	Sequence 77, Appl	1213	66.5	2.5	402	6	US-10-793-626-2282	Sequence 2282, Ap
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1141	67	2.6	537	7	US-11-098-686-10170	Sequence 10170, A	1215	66.5	2.5	412	6	US-11-098-686-10404	Sequence 10404, A
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1144	67	2.6	548	7	US-11-087-099-6916	Sequence 6916, Ap	1218	66.5	2.5	423	7	US-11-087-099-9700	Sequence 9700, Ap
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1148	67	2.6	620	7	US-11-087-099-9200	Sequence 9200, Ap	1222	66.5	2.5	456	6	US-10-931-626-8	Sequence 8, Appli
1149	67	2.6	628	7	US-11-074-176-244	Sequence 244, App	1223	66.5	2.5	466	6	US-10-931-626-6	Sequence 6, Appli
1150	67	2.6	632	7	US-11-213-326-4	Sequence 4, Appli	1224	66.5	2.5	473	6	US-10-931-626-4	Sequence 4, Appli
1151	67	2.6	646	7	US-11-213-326-6	Sequence 6, Appli	1225	66.5	2.5	475	7	US-11-096-568A-10412	Sequence 10412, A
1152	67	2.6	686	7	US-11-213-326-2	Sequence 2, Appli	1226	66.5	2.5	502	6	US-10-934-944-154	Sequence 154, App
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1154	67	2.6	764	7	US-11-087-099-828	Sequence 828, App	1228	66.5	2.5	509	7	US-11-135-667-34	Sequence 34, Appl
1155	67	2.6	777	7	US-11-043-693-3	Sequence 3, Appli	1229	66.5	2.5	510	7	US-11-072-513-3594	Sequence 3594, Ap
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1158	67	2.6	810	6	US-10-954-468-37	Sequence 37, Appl	1232	66.5	2.5	529	7	US-11-205-109-11	Sequence 11, Appl
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1160	67	2.6	863	6	US-10-793-626-2010	Sequence 2010, Ap	1234	66.5	2.5	535	7	US-11-096-568A-18832	Sequence 18832, A
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1162	67	2.6	878	6	US-10-954-468-41	Sequence 41, Appl	1236	66.5	2.5	547	6	US-10-793-626-1486	Sequence 1486, Ap
1163	67	2.6	932	7	US-11-188-743-17	Sequence 17, Appl	1237	66.5	2.5	557	6	US-11-096-568A-1828	Sequence 1828, Ap
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1167	67	2.6	937	7	US-11-017-550-66	Sequence 66, Appl	1241	66.5	2.5	562	6	US-10-507-928-10	Sequence 10, Appl
1168	67	2.6	984	6	US-11-113-424-60	Sequence 60, Appl	1242	66.5	2.5	562	6	US-10-507-928-12	Sequence 12, Appl
1169	67	2.6	985	6	US-10-954-468-39	Sequence 39, Appl	1243	66.5	2.5	562	7	US-11-029-465-10	Sequence 10, Appl
1170	67	2.6	1021	6	US-10-453-372-1076	Sequence 1076, Ap	1244	66.5	2.5	570	6	US-10-821-234-1601	Sequence 1601, Ap
1171	67	2.6	1025	6	US-10-453-372-1070	Sequence 1070, Ap	1245	66.5	2.5	574	6	US-10-966-483-31	Sequence 31, Appl
1172	67	2.6	1076	7	US-11-098-686-11184	Sequence 11184, A	1246	66.5	2.5	574	7	US-11-021-441-15	Sequence 15, Appl
1173	67	2.6	1122	7	US-11-098-686-11338	Sequence 11338, A	1247	66.5	2.5	587	7	US-11-096-568A-1827	Sequence 1827, Ap
1174	67	2.6	1122	7	US-11-087-099-12448	Sequence 12448, A	1248	66.5	2.5	591	6	US-10-714-995-16	Sequence 16, Appl
1175	67	2.6	1298	7	US-11-076-427A-12	Sequence 12, Appl	1249	66.5	2.5	592	7	US-11-096-568A-1826	Sequence 1826, Ap
1176	67	2.6	1298	7	US-11-075-047A-6	Sequence 6, Appli	1250	66.5	2.5	607	7	US-11-096-568A-29430	Sequence 29430, A
1177	67	2.6	1338	6	US-10-821-234-1622	Sequence 1622, Ap	1251	66.5	2.5	629	7	US-11-096-568A-29173	Sequence 29173, A
1178	67	2.6	1338	7	US-11-109-156-23	Sequence 23, Appl	1252	66.5	2.5	651	7	US-11-194-246-342	Sequence 342, App
1179	67	2.6	1338	7	US-11-075-047A-2	Sequence 2, Appli	1253	66.5	2.5	657	7	US-11-096-568A-32797	Sequence 32797, A
1180	67	2.6	1363	7	US-11-043-693-32	Sequence 32, Appl	1254	66.5	2.5	667	7	US-11-096-568A-32796	Sequence 32796, A
1181	67	2.6	1363	7	US-11-076-427A-10	Sequence 10, Appl	1255	66.5	2.5	671	7	US-11-096-568A-32795	Sequence 32795, A
1182	67	2.6	1363	7	US-11-075-047A-121	Sequence 121, App	1256	66.5	2.5	678	7	US-11-096-568A-29172	Sequence 29172, A
1183	67	2.6	1394	7	US-11-115-639-53	Sequence 53, Appl	1257	66.5	2.5	687	7	US-11-096-568A-6967	Sequence 6967, Ap
1184	67	2.6	1508	7	US-11-043-889-47	Sequence 47, Appl	1258	66.5	2.5	694	7	US-11-096-568A-29429	Sequence 29429, A
1185	67	2.6	1575	6	US-10-501-035-228	Sequence 228, App	1259	66.5	2.5	706	7	US-11-098-686-10524	Sequence 10524, A
1186	67	2.6	1614	6	US-10-821-234-903	Sequence 903, App	1260	66.5	2.5	707	7	US-11-096-568A-6966	Sequence 6966, Ap
1187	67	2.6	1905	6	US-10-877-346-44	Sequence 44, Appl	1261	66.5	2.5	709	7	US-11-096-568A-29889	Sequence 29889, A
1188	67	2.6	2348	6	US-10-450-224A-2	Sequence 2, Appli	1262	66.5	2.5	718	7	US-11-111-664-4	Sequence 4, Appli
1189	67	2.6	4544	6	US-10-501-035-214	Sequence 214, App	1263	66.5	2.5	719	7	US-11-096-568A-29171	Sequence 29171, A
1190	67	2.6	4544	7	US-11-076-427A-32	Sequence 32, Appl	1264	66.5	2.5	722	7	US-11-096-568A-31896	Sequence 31896, A
1191	67	2.6	4868	7	US-11-044-111-24	Sequence 24, Appl	1265	66.5	2.5	736	7	US-11-098-686-11251	Sequence 11251, A
1192	66.5	2.5	178	7	US-11-096-568A-18545	Sequence 18545, A	1266	66.5	2.5	749	7	US-11-111-664-3	Sequence 3, Appli
1193	66.5	2.5	220	7	US-11-082-389-72	Sequence 72, Appl	1267	66.5	2.5	759	7	US-11-111-664-2	Sequence 2, Appli
1194	66.5	2.5	256	6	US-10-485-517-378	Sequence 378, App	1268	66.5	2.5	764	7	US-11-096-568A-31895	Sequence 31895, A
1195	66.5	2.5	286	7	US-11-096-568A-30703	Sequence 30703, A	1269	66.5	2.5	765	7	US-11-087-099-11066	Sequence 11066, A
1196	66.5	2.5	302	7	US-11-096-568A-15531	Sequence 15531, A	1270	66.5	2.5	765	7	US-11-087-099-2704	Sequence 2704, Ap
1197	66.5	2.5	310	7	US-11-087-099-2844	Sequence 2844, Ap	1271	66.5	2.5	766	7	US-11-072-512-2545	Sequence 2545, Ap
1198	66.5	2.5	322	7	US-11-156-084-318	Sequence 318, App	1272	66.5	2.5	781	7	US-11-072-513-2937	Sequence 2937, Ap
1199	66.5	2.5	326	6	US-10-526-284-1	Sequence 1, Appli	1273	66.5	2.5	788	7	US-11-200-2968A-2	Sequence 2, Appli
1200	66.5	2.5	327	7	US-11-096-568A-30702	Sequence 30702, A	1274	66.5	2.5	803	7	US-11-098-686-10842	Sequence 10842, A
1201	66.5	2.5	334	7	US-11-087-099-1591	Sequence 1591, Ap	1275	66.5	2.5	808	6	US-11-096-568A-30647	Sequence 30647, A
1202	66.5	2.5	349	7	US-11-087-099-3849	Sequence 3849, Ap	1276	66.5	2.5	809	6	US-10-523-503-66	Sequence 66, Appl
1203	66.5	2.5	359	6	US-10-931-626-2	Sequence 2, Appli	1277	66.5	2.5	809	7	US-11-096-568A-31894	Sequence 31894, A

1278	66.5	2.5	822	7	US-11-200-296B-67	Sequence 67, Appl	1352	66	2.5	594	6	US-10-467-657-3952	Sequence 3952, Ap
1279	66.5	2.5	824	7	US-11-096-568A-36858	Sequence 26858, A	1353	66	2.5	617	6	US-10-995-561-890	Sequence 890, App
1280	66.5	2.5	832	7	US-11-096-568A-30646	Sequence 30646, A	1354	66	2.5	619	6	US-10-763-712A-35	Sequence 35, Appl
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1282	66.5	2.5	852	6	US-10-725-473-7	Sequence 7, Appl	1356	66	2.5	661	6	US-10-467-657-1266	Sequence 1266, Ap
1283	66.5	2.5	852	7	US-11-050-809-635	Sequence 635, App	1357	66	2.5	676	7	US-11-098-686-10486	Sequence 10486, A
1284	66.5	2.5	861	7	US-11-087-099-635	Sequence 635, App	1358	66	2.5	682	6	US-10-956-026-14	Sequence 14, Appl
1285	66.5	2.5	883	7	US-11-096-568A-30645	Sequence 30645, A	1359	66	2.5	683	7	US-11-087-099-7461	Sequence 7461, Ap
1286	66.5	2.5	908	7	US-11-077-619-90	Sequence 90, Appl	1360	66	2.5	724	6	US-10-793-626-3082	Sequence 3082, Ap
1287	66.5	2.5	912	7	US-11-042-988-12	Sequence 12, Appl	1361	66	2.5	724	6	US-11-087-099-12342	Sequence 12342, A
1288	66.5	2.5	932	7	US-11-071-581-1	Sequence 1, Appl	1362	66	2.5	756	6	US-10-956-026-13	Sequence 13, Appl
1289	66.5	2.5	966	7	US-11-096-568A-30523	Sequence 30523, A	1363	66	2.5	761	7	US-11-087-099-8791	Sequence 8791, Ap
1290	66.5	2.5	976	7	US-11-096-568A-30522	Sequence 30522, A	1364	66	2.5	772	7	US-11-147-238-2	Sequence 2, Appl
1291	66.5	2.5	978	7	US-11-096-568A-30521	Sequence 30521, A	1365	66	2.5	772	7	US-11-147-238-5	Sequence 5, Appl
1292	66.5	2.5	1005	7	US-11-113-424-63	Sequence 63, Appl	1366	66	2.5	776	7	US-11-033-039-637	Sequence 637, App
1293	66.5	2.5	1073	7	US-11-096-568A-31289	Sequence 31289, A	1367	66	2.5	778	7	US-11-087-099-7615	Sequence 7615, Ap
1294	66.5	2.5	1122	7	US-11-096-568A-31288	Sequence 31288, A	1368	66	2.5	780	6	US-10-878-506A-197	Sequence 197, App
1295	66.5	2.5	1206	7	US-11-096-568A-31287	Sequence 31287, A	1369	66	2.5	798	7	US-11-031-206-192	Sequence 192, App
1296	66.5	2.5	1871	6	US-10-877-346-42	Sequence 42, Appl	1370	66	2.5	821	7	US-11-087-099-821	Sequence 821, App
1297	66.5	2.5	2244	7	US-11-131-263-9	Sequence 9, Appl	1371	66	2.5	847	7	US-11-087-099-970	Sequence 970, App
1298	66.5	2.5	2244	7	US-11-131-263-18	Sequence 18, Appl	1372	66	2.5	862	7	US-11-077-550-171	Sequence 171, App
1299	66.5	2.5	2444	7	US-11-131-263-30	Sequence 30, Appl	1373	66	2.5	862	7	US-11-077-550-173	Sequence 173, App
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1301	66.5	2.5	7968	7	US-11-143-980-49	Sequence 49, Appl	1375	66	2.5	917	6	US-10-858-730-206	Sequence 206, App
1302	66	2.5	246	7	US-11-096-568A-20793	Sequence 20793, A	1376	66	2.5	937	7	US-11-098-686-11296	Sequence 11296, A
1303	66	2.5	251	6	US-10-485-517-167	Sequence 167, App	1377	66	2.5	967	7	US-11-202-268-6	Sequence 6, Appl
1304	66	2.5	271	7	US-11-096-568A-8711	Sequence 8711, Ap	1378	66	2.5	1011	7	US-11-202-268-2	Sequence 2, Appl
1305	66	2.5	274	7	US-11-216-267-28	Sequence 28, Appl	1379	66	2.5	1035	7	US-11-087-099-5013	Sequence 5013, Ap
1306	66	2.5	274	7	US-11-232-382-28	Sequence 28, Appl	1380	66	2.5	1047	7	US-11-072-512-2408	Sequence 2408, Ap
1307	66	2.5	283	7	US-11-096-568A-13650	Sequence 13650, A	1381	66	2.5	1077	7	US-11-054-281-110	Sequence 110, App
1308	66	2.5	299	7	US-11-096-568A-8928	Sequence 8928, Ap	1382	66	2.5	1161	6	US-10-511-538-99	Sequence 99, Appl
1309	66	2.5	300	7	US-11-156-084-344	Sequence 344, App	1383	66	2.5	1170	7	US-11-080-026-2	Sequence 2, Appl
1310	66	2.5	302	6	US-10-793-626-2798	Sequence 2798, Ap	1384	66	2.5	1170	7	US-11-107-028-4	Sequence 4, Appl
1311	66	2.5	323	7	US-11-087-099-3351	Sequence 3351, Ap	1385	66	2.5	1188	7	US-11-115-639-42	Sequence 42, Appl
1312	66	2.5	334	7	US-11-096-568A-20792	Sequence 20792, A	1386	66	2.5	1188	7	US-11-115-639-43	Sequence 43, Appl
1313	66	2.5	337	7	US-11-096-568A-13649	Sequence 13649, A	1387	66	2.5	1208	6	US-10-330-773-810	Sequence 810, App
1314	66	2.5	339	7	US-11-096-568A-30912	Sequence 30912, A	1388	66	2.5	1252	7	US-11-115-639-34	Sequence 34, Appl
1315	66	2.5	342	7	US-11-096-568A-20791	Sequence 20791, A	1389	66	2.5	1252	7	US-11-115-639-35	Sequence 35, Appl
1316	66	2.5	348	7	US-11-096-568A-30911	Sequence 30911, A	1390	66	2.5	1252	7	US-11-115-639-36	Sequence 36, Appl
1317	66	2.5	353	7	US-11-087-099-10560	Sequence 10560, A	1391	66	2.5	1437	7	US-11-074-176-96	Sequence 96, Appl
1318	66	2.5	354	7	US-11-087-099-10560	Sequence 10560, A	1392	66	2.5	1438	6	US-10-511-553-73	Sequence 73, Appl
1319	66	2.5	357	7	US-11-096-568A-11359	Sequence 11359, Ap	1393	66	2.5	1604	7	US-11-037-243-73	Sequence 73, Appl
1320	66	2.5	361	7	US-11-130-206-6	Sequence 6, Appl	1394	66	2.5	2096	6	US-10-995-561-606	Sequence 606, App
1321	66	2.5	362	7	US-11-096-568A-30910	Sequence 30910, A	1395	66	2.5	2351	7	US-11-183-205-30	Sequence 30, Appl
1322	66	2.5	364	7	US-11-087-099-5107	Sequence 5107, Ap	1396	66	2.5	2351	7	US-11-244-087-3	Sequence 3, Appl
1323	66	2.5	364	7	US-11-087-099-10217	Sequence 10217, A	1397	66	2.5	2351	7	US-11-267-631-49	Sequence 49, Appl
1324	66	2.5	365	7	US-11-087-099-10217	Sequence 10217, A	1398	66	2.5	2367	7	US-11-051-453-42	Sequence 42, Appl
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1326	66	2.5	375	7	US-11-087-099-11240	Sequence 11240, A	1400	65.5	2.5	170	7	US-11-096-568A-22722	Sequence 22722, A
1327	66	2.5	376	7	US-11-087-099-2815	Sequence 2815, Ap	1401	65.5	2.5	178	7	US-11-096-568A-22721	Sequence 22721, A
1328	66	2.5	384	6	US-10-467-657-508	Sequence 508, App	1402	65.5	2.5	238	7	US-11-096-568A-27112	Sequence 27112, A
1329	66	2.5	410	7	US-11-096-568A-5681	Sequence 5681, Ap	1403	65.5	2.5	242	7	US-11-096-568A-6921	Sequence 6921, Ap
1330	66	2.5	420	7	US-11-098-686-10332	Sequence 10332, A	1404	65.5	2.5	255	7	US-11-087-099-4482	Sequence 4482, Ap
1331	66	2.5	421	6	US-10-858-730-1	Sequence 1, Appl	1405	65.5	2.5	256	7	US-11-096-568A-25307	Sequence 25307, A
1332	66	2.5	431	7	US-11-074-176-132	Sequence 132, App	1406	65.5	2.5	258	7	US-11-054-515-1234	Sequence 1234, Ap
1333	66	2.5	452	7	US-11-087-099-4768	Sequence 4768, Ap	1407	65.5	2.5	270	6	US-10-988-476-2	Sequence 2, Appl
1334	66	2.5	457	7	US-11-208-308-13	Sequence 13, Appl	1408	65.5	2.5	293	7	US-11-170-153-12	Sequence 12, Appl
1335	66	2.5	475	7	US-11-146-428-92	Sequence 92, Appl	1409	65.5	2.5	293	7	US-11-170-166-12	Sequence 12, Appl
1336	66	2.5	480	7	US-11-087-099-9924	Sequence 9924, Ap	1410	65.5	2.5	293	7	US-11-170-351-12	Sequence 12, Appl
1337	66	2.5	482	7	US-11-096-568A-8958	Sequence 8958, Ap	1411	65.5	2.5	296	7	US-11-170-153-10	Sequence 10, Appl
1338	66	2.5	501	6	US-10-467-657-7682	Sequence 7682, Ap	1412	65.5	2.5	296	7	US-11-170-166-10	Sequence 10, Appl
1339	66	2.5	502	7	US-11-096-568A-18101	Sequence 18101, A	1413	65.5	2.5	296	7	US-11-170-351-10	Sequence 10, Appl
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1342	66	2.5	511	6	US-10-973-115B-122	Sequence 122, App	1415	65.5	2.5	306	6	US-10-995-561-894	Sequence 894, App
1343	66	2.5	524	6	US-10-507-106-4	Sequence 4, Appl	1416	65.5	2.5	310	7	US-11-096-568A-25042	Sequence 25042, A
1344	66	2.5	524	7	US-11-208-308-11	Sequence 11, Appl	1417	65.5	2.5	310	7	US-11-096-568A-27111	Sequence 27111, A
1345	66	2.5	524	7	US-11-208-308-12	Sequence 12, Appl	1418	65.5	2.5	328	7	US-11-096-568A-25249	Sequence 25249, A
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1347	66	2.5	541	7	US-11-098-686-11058	Sequence 11058, A	1420	65.5	2.5	332	7	US-11-096-568A-8379	Sequence 8379, Ap
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1349	66	2.5	576	7	US-11-096-568A-8957	Sequence 8957, Ap	1422	65.5	2.5	334	7	US-11-087-099-8695	Sequence 8695, Ap
1350	66	2.5	576	7	US-11-096-568A-8959	Sequence 8959, Ap	1423	65.5	2.5	343	7	US-11-087-099-8082	Sequence 7082, Ap
1351	66	2.5	583	7	US-11-098-686-11405	Sequence 11405, A	1424	65.5	2.5	348	7	US-11-096-568A-8378	Sequence 8378, Ap

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1428	65.5	2.5	360	7	US-11-087-099-10062	Sequence 10062, A
1429	65.5	2.5	361	6	US-10-995-561-612	Sequence 612, App
1430	65.5	2.5	362	6	US-10-467-657-1110	Sequence 1110, Ap
1431	65.5	2.5	362	7	US-11-087-099-8599	Sequence 8599, Ap
1432	65.5	2.5	364	7	US-11-098-686-10327	Sequence 10327, A
1433	65.5	2.5	372	7	US-11-087-099-1983	Sequence 1983, Ap
1434	65.5	2.5	372	7	US-11-087-099-10666	Sequence 10666, A
1435	65.5	2.5	375	7	US-11-051-267-16	Sequence 16, Appl
1436	65.5	2.5	378	7	US-11-087-099-2341	Sequence 2341, Ap
1437	65.5	2.5	379	7	US-11-096-568A-7081	Sequence 7081, Ap
1438	65.5	2.5	383	7	US-11-096-568A-29928	Sequence 29928, A
1439	65.5	2.5	391	7	US-11-096-568A-29927	Sequence 29927, A
1440	65.5	2.5	391	7	US-11-096-568A-29932	Sequence 29932, A
1441	65.5	2.5	402	6	US-10-649-591-18	Sequence 18, Appl
1442	65.5	2.5	417	6	US-10-821-234-1839	Sequence 1839, Ap
1443	65.5	2.5	417	6	US-10-878-568A-52	Sequence 52, Appl
1444	65.5	2.5	419	7	US-11-096-568A-15339	Sequence 15339, A
1445	65.5	2.5	422	6	US-10-485-517-135	Sequence 135, App
1446	65.5	2.5	423	6	US-10-525-710-44	Sequence 44, Appl
1447	65.5	2.5	425	7	US-11-096-568A-25040	Sequence 25040, A
1448	65.5	2.5	425	7	US-11-096-568A-25564	Sequence 25564, A
1449	65.5	2.5	434	7	US-11-096-568A-15338	Sequence 15338, A
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1451	65.5	2.5	439	7	US-11-096-568A-29931	Sequence 29931, A
1452	65.5	2.5	442	7	US-11-087-099-1764	Sequence 1764, Ap
1453	65.5	2.5	480	7	US-11-096-568A-25275	Sequence 25275, A
1454	65.5	2.5	481	7	US-11-031-208-76	Sequence 76, Appl
1455	65.5	2.5	483	7	US-11-096-568A-18833	Sequence 18833, A
1456	65.5	2.5	484	7	US-11-096-568A-25274	Sequence 25274, A
1457	65.5	2.5	500	7	US-11-096-568A-29930	Sequence 29930, A
1458	65.5	2.5	534	7	US-11-057-732-2	Sequence 2, Appl
1459	65.5	2.5	535	7	US-11-096-568A-29234	Sequence 29234, A
1460	65.5	2.5	561	7	US-11-072-512-1390	Sequence 1390, Ap
1461	65.5	2.5	571	6	US-10-973-115B-542	Sequence 542, App
1462	65.5	2.5	576	7	US-11-098-686-10763	Sequence 10763, A
1463	65.5	2.5	590	7	US-11-096-568A-29233	Sequence 29233, A
1464	65.5	2.5	592	7	US-11-096-568A-29232	Sequence 29232, A
1465	65.5	2.5	601	7	US-11-024-959-295	Sequence 295, App
1466	65.5	2.5	602	7	US-11-087-099-11542	Sequence 11542, A
1467	65.5	2.5	603	6	US-10-793-626-1684	Sequence 1684, Ap
1468	65.5	2.5	618	7	US-11-096-568A-29565	Sequence 29565, A
1469	65.5	2.5	619	7	US-11-087-099-381	Sequence 381, App
1470	65.5	2.5	619	7	US-11-096-568A-28116	Sequence 28116, A
1471	65.5	2.5	625	7	US-11-096-568A-27731	Sequence 27731, A
1472	65.5	2.5	625	7	US-11-096-568A-29564	Sequence 29564, A
1473	65.5	2.5	627	7	US-11-130-559-7	Sequence 7, Appl
1474	65.5	2.5	628	6	US-10-793-626-2844	Sequence 2844, Ap
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1476	65.5	2.5	675	7	US-11-096-568A-27730	Sequence 27730, A
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1479	65.5	2.5	718	7	US-11-147-109-6	Sequence 27729, A
1480	65.5	2.5	718	7	US-11-147-109-6	Sequence 6, Appl
1481	65.5	2.5	729	7	US-11-130-821-4	Sequence 4, Appl
1482	65.5	2.5	734	6	US-10-501-035-347	Sequence 347, App
1483	65.5	2.5	736	6	US-10-330-773-813	Sequence 813, App
1484	65.5	2.5	739	7	US-11-087-099-4827	Sequence 4827, Ap
1485	65.5	2.5	758	7	US-11-087-099-7427	Sequence 7427, Ap
1486	65.5	2.5	765	7	US-11-087-099-905	Sequence 905, App
1487	65.5	2.5	772	6	US-10-858-730-77	Sequence 77, Appl
1488	65.5	2.5	774	7	US-11-096-568A-33913	Sequence 33913, A
1489	65.5	2.5	787	7	US-11-096-568A-33912	Sequence 33912, A
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1492	65.5	2.5	820	7	US-11-165-819-1	Sequence 1, Appl
1493	65.5	2.5	825	7	US-11-074-176-20	Sequence 20, Appl
1494	65.5	2.5	841	7	US-11-096-568A-33911	Sequence 33911, A
1495	65.5	2.5	852	6	US-10-517-939-120	Sequence 120, App
1496	65.5	2.5	855	6	US-10-714-993-14	Sequence 14, Appl
1497	65.5	2.5	873	7	US-11-057-058-58	Sequence 58, Appl
1498	65.5	2.5	877	7	US-11-098-686-10371	Sequence 10371, A

Sequence 5, Appl1
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